

DI

REVISED CATALOGUE
OF THE
DIURNAL LEPIDOPTERA
OF
AMERICA NORTH OF MEXICO.

BY
WILLIAM H. EDWARDS.



PHILADELPHIA:
FROM TRANSACTIONS OF THE AMERICAN ENTOMOLOGICAL SOCIETY.
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PREFACE.

The Catalogue of the Diurnal Lepidoptera of America north of Mexico was published in 1877, and so much new material has since then accumulated,—descriptions of species, or of preparatory stages, or relation of habits, or mention of localities, that a Revision has seemed urgent. In preparing the present edition I have greatly enlarged the references, and have added an Index of species. I have followed the rules which were set forth in the Advertisement of the Catalogue, dropping all species which I believe to have been improperly credited to this fauna, crediting the genus names to the authors who first defined them, and in the general arrangement, while adopting the families and sub-families of some of the later systematists, adhering mainly to the order of Doubleday and his associates in the "Genera of Diurnal Lepidoptera." In the Hesperidæ I have followed Dr. Adolph Speyer, as in the Catalogue. Since 1877 this author has still further investigated the same family, and so far as concerns the American species, I have availed myself of most of his conclusions.

Nearly every North American species of Butterfly is represented in my collection, but where any are wanting I have in most cases been able to examine them elsewhere. With this aid I have carefully gone over the entire list of species, and their standing is given herein according to my best judgment.

W. H. EDWARDS.

Coalburgh, W. Va., May 15, 1884.

NAMES OF AUTHORS AND WORKS QUOTED, AND EXPLANATION OF ABBREVIATIONS USED.

-
- Agas.*—Agassiz, L.—Lake Superior. Descriptions of Lepidoptera by Harris, 1850.
- Am. Ent.*—American Entomologist, St. Louis, 1869–70.
- Am. Nat.*—American Naturalist.
- Ann. N. Y. Lyc. N. Hist.*—Annals of the New York Lyceum of Natural History.
- Ann. Soc. Ent. Fr.*—Annales de la Société Entomologique de France.
- App. Ross Exp.*—Appendix to Narrative of Ross' second voyage, 1835.
- Aaron, E. M.*
- Ashm.*—Ashmead, W. H. Orange Insects, 1880.
- Bates, H. W.*
- Bd.*—Boisduval, Dr. J. A.
- Icon.*—Icones historique des Lépidoptères, Paris, 1832.
- Sp. Gen.*—Species generale des Lépidoptères. Vol. I, Paris, 1836.
- Lep. de la Cal.*—Lépidoptères de la Californie, 1869.
- Bd.-Lec.*—Boisduval and Leconte. Des Lépidoptères de l'Amerique septentrionale, Paris, 1833.
- Bean, Thomas E.*
- Behr. Dr. Hermann.*
- Behrens, J. C.*
- Birch.*—Birchall, E.
- Boll, Jacob.*
- Bost. Jl. N. Hist.*—Boston Journal of Natural History.
- Br. Bull.*—Bulletin of the Brooklyn Entomological Society.
- Bull. Buff.*—Bulletin of the Buffalo Society of Natural Sciences.
- Bunker, Robert.*
- Burgess, E.*
- Butl.*—Butler, A. G.
- Lep. Ex.*—Lepidoptera Exotica, London, 1869–74.
- Cat. Satyr. Br. Mus.*—Catalogue of the Satyridæ in the collection of the British Museum, London, 1868.
- Can. Ent.*—The Canadian Entomologist, London, Ont.
- Can. Nat.*—The Canadian Naturalist, Montreal.
- Cat. Mus. Petr.*—Enumeratio Corporum Animalium Musei Imperialis Academicæ Scientiarum Petropolitane. Part 1, 1855–63.
- Caulf.*—Caulfield, F. B.
- Chapm.*—Chapman, Dr. A. W.
- Corr. Blatt. Regensb.*—Correspondenz blatt für Sammler von Insecten etc., by Herrich-Schaeffer, 1860–61.

- Clark, Howard L.
 Cram.—Cramer, Pierre, Papillons Exotiques. Vols. I—IV, 1779–82.
 Curt.—Curtis, John. Appendix to Narrative of Ross' second voyage, 1835.
 Dalman, I. W.
 De Prun.—De Prunner, L. Lepidoptera Pedemontana, 1798.
 Deuts. Entom. Zeits.—Deutsche Entomologische Zeitschrift, Berlin.
 Dodge, G. M.
 Don.—Donovan, Edward.
 Ins. Ind.—Insects of India, London, 1800–03.
 Doubl.—Doubleday, Edward.
 Doubl.—Hew.—Doubleday and Hewitson.
 Gen. Di. Lep.—The Genera of Diurnal Lepidoptera, London, 1846–52.
 D'Urb.—D'Urban, W. S.
 Denkschr. Ak. Wiss. Wien.—Denkschriften; akademie der wissenschaften;
 mathematisch-naturwissenschaftliche classe, 1850–53.
 Dru.—Drury, Dru. Illustrations of Exotic Entomology. Vols. I—III, 1770–82.
 Edw.—Edwards, W. H.
 But.—The Butterflies of North America. Vol. I, 1868–72; Vol. II, 1874–84.
 Syn.—Synopsis of North American Butterflies, 1872.
 Edw. H.—Edwards, Henry.
 Enc. Meth.—Encyclopedie Methodique, Paris. Vol. IX, 1819.
 Ent. Mo. Mag.—The Entomologist's Monthly Magazine, London.
 Entom.—The Entomologist, London.
 Erichs.
 Schomb. Reise.
 Esp.—Esper, E. J. C.
 Eur. Schmett.—Die Schmetterlinge, Erlangen, 1777.
 Eur. Schmett.—Die Europäischen Schmetterlinge, 1777–94.
 Eversm.—Eversmann, E. Bulletin de Société Imperiale des Naturalistes.
 Fab.—Fabricius, J. C.
 Syst. Ent.—Systema Entomologie, 1775.
 Sp. Ins.—Species Insectorum II, 1781.
 Mant.—Mantissa Insectorum II, 1787.
 Ent. Syst.—Entomologia Systematica III, 1793.
 Feld.—Felder, Dr. Cajetan.
 Reise Nov. Lep.—Reise Fregatte Novara, Lepidoptera, Wien., 1864–67.
 Verh. Zool. Bot. Ges.—Verhandlungen der Kaiserlichen-Königlichen, Zool-
 ogisches-Botanischen Gesellschaft, Vienna.
 Sp. Lep.—Species Lepidopterorum, Vienna, 1864.
 Fern.—Fernald, C. H.
 But. Me.—Butterflies of Maine, 1884.
 Field and Forest.—Vol. III, Washington, 1877–78.
 Fisch.—Fischer, G.
 Ent. Russ.—Entomographie de la Russie, 1823–24.
 Fisher, Dr. J. C.
 Fitch, Dr. Asa.
 French, G. H.
 Frey.—Freyer, C. F.
 Neu. Beitr.—Neure Beitrage zur Schmetterlingskunde, Augsburg, 1833–58.
 Geddes, G.

- Geyer, C.*
Codd.—Godart, J. B.
Gosse, P. H.
Gray, Dr. E.
Griff. Anim. King.—Griffith's Animal King, Vol. XV, 1832.
Gro.—Grote, A. R.
Gro.-Rob.—Grote and Robinson.
Grub.—Gruber, Dr. Aug.
Guer.—Guerin. Iconographie de Regne Animal, 1844.
Hag.—Hagen, Dr. H. A.
Harr.—Harris, Dr. T. W. Insects Injurious to Vegetation; second edition, Boston, 1862.
N. E. Farm.—New England Farmer.
 Description of Lepidoptera in Agassiz, Lake Superior.
Hayden Bull.—Hayden's Bulletin of the U. S. Geological Survey.
Herr.-Schaeff.—Herrick-Schaeffer, G. A.
Eur. Schmett.—Europaischen Schmetterlinge, 1847-50.
Hew.—Hewitson, W. C.
Ex. But.—Illustrations of New Species of Exotic Butterflies, London, 1851-71.
Des. Hesp.—Description of New Species of Hesperidae, 1867-69.
Hist. Nat. de Cuba.—Memorias sobre la Historia Natural de la Isla de Cuba, by F. Poey, Havana, 1851.
Hoy, Dr. J. P.
Hüb.—Hübner, Jacob.
Samml. Ex. Schmett.—Sammlung Exotischer Schmetterlinge, 1816--24.
Zutr. Ex. Schmett.—Zutraege zur Sammlung Exotischer Schmetterlinge, 1818--25.
Eur. Schmett.—Sammlung Europaischer Schmetterlinge, 1805--32.
Humph.-West.—Humphreys and Westwood. British Butterflies, London, 1848.
Hulst, G. D.
Jen. Zeitschr. Nat.—Jenaische Zeitschrift für naturwissenschaft, Vol. XVII, 1884.
Kirby, Wm.
Faun. Bor. Amer.—Fauna Boreali-Americana, Part IV, London, 1837.
Kirtl.—Kirtland, Dr. J. P.
Koll.—Kollar, V.
Latr.—Latreille, P. A.
Led.—Lederer, J. Die Europaischen Lepidopteren, 1852--53.
Lef.—Lefebvre, A.
Linn.—Linné, Carl.
Mus. Lud. Ultr.—Museum Ludovicæ Ultricæ Reginæ, 1764.
Syst. Nat.—Systema Nature; twelfth edition, 1767.
Mant.—Mantissa Plantarum, 1771.
Linn. Soc. Jl.—Journal of the Proceedings of the Linnean Society, London.
Lintn.—Lintner, J. A.
Ent. Cont.—Entomological Contributions, 1872--78.
Luc.—Lucas, H.
Lep. Ex.—Histoire Naturelle des Lépidoptères Exotique, Paris, 1835.
Lyman, H. H.
Mayer, I.

- Mayn.*—Maynard, C. J.
McLachl.—McLachlan, R.
Meqd, Theo. L.
Mem. Bost. Soc. N. Hist.—Memoirs of the Boston Society of Natural History.
Mén.—Ménétriés, E.
Mo. Ent. Rep.—Missouri Entomological Reports.
Moff.—Moffat, J. A.
Morr.—Morris, Rev. J. G.
Morra.—Morrison, H. K.
Möschl.—Möschler, H. B. Beiträge zur Lepidopteren Fauna von Labrador in
 Wien. Ent. Monat.
Mundt, A. H.
Ochs.—Ochsenheimer, F.
Eur. Schmett.—Die Schmetterlinge von Europa, 1807--16.
Pack.—Packard, A. S., Jr.
Guide.—Guide to the Study of Insects, 1869.
Papilio. Vols. I—III, New York, 1881--83; Vol. IV, Philadelphia, 1884.
Park.—Parker, H. W.
Pears.—Pearson, C. W.
Poey, Felippe.
Cent. Lep. Cuba.—Centurie de Lépidoptères de l'Île de Cuba, 1832.
Pr. Ac. N. Sci. Phil.—Proceedings of the Academy of Natural Sciences of Philadelphia.
Pr. Am. Ass. A. Sci.—Proceedings of the American Association for the Advancement of Science.
Pr. Bost. Soc. N. Hist.—Proceedings of the Boston Society of Natural History.
Pr. Cal. Ac. N. Sci.—Proceedings of the California Academy of Natural Sciences.
Pr. Dav. Ac. N. Sci.—Proceedings of the Davenport Academy of Natural Sciences.
Pr. E. Soc. Phil.—Proceedings of the Entomological Society of Philadelphia.
Pr. Ess. Ins.—Proceedings of the Essex Institute.
Pr. Zool. Soc. Lond.—Proceedings of the Zoological Society, London.
Psyche. Vols. I—IV, Cambridge, Mass.
Putn.—Putnam, J. D.
Ramb.—Rambur, J. P.
Faun. Ent. And.—Faune Entomologique de l'Andalousie, Paris, 1838--39.
Reak.—Reakirt, T.
Rep. Hayden Exp.—Report on the Geological Survey of Montana, etc., 1872.
Rep. Wheeler Exp.—Report upon Geographical and Geological Explorations, etc.,
 in charge of Lieut. G. M. Wheeler, U.S.A., Vol. V, 1875.
Zoology. Diurnal Lepidoptera by Mead.
Rev. Zool.—Revue et Magazin de Zoologie, Paris.
Rid.—Ridings, James.
Riley, C. V.
Ruff. Rep.—Report upon Explorations in the Department of the Missouri, by
 Lieut. E. H. Ruffner, U.S.A. Insects, by H. Strecker.
Sagr.—Sagra, R. de la.
Hist. Cuba.—Historie. . . Naturelle de l'Île de Cuba, Paris, 1857.
Saund.—Saunders, Wm.

Say, Thomas.

Am. Ent.—American Entomology, Vols. I—III, 1824-28.

Schneid.—Schneider, D. H.

Neu. Mag.—Neueste Magazin für die Liebhaber der Entomologie, Stralsund, 1791-94.

Schränk, F.

Scud.—Scudder, Samuel H.

But.—Butterflies, New York, 1881.

Syst. Rev.—A. Systematic Revision of some of the N. Am. Butterflies, Salem, 1871.

Scud. Burg.—Scudder and Burgess. On Asymmetry in the Appendages of Hexapod Insects, Boston, 1870.

Sill. Jl.—Silliman's American Journal of Science and Arts.

Smith, J. B.

Sm.-Abb.—Smith and Abbot. Lepidopterous Insects of Georgia, Vols. I, II, London, 1797.

Somm.—Sommer, M. C.

Stoll, C.

Suppl. Cram.—Supplement to Cramer's Papillons Exotiques, 1791.

Speyer, Adolph. The Genera of the Hesperidæ of the European Faunal-Region. Canadian Entomologist, Vol. X, 1878.

Hesperidæ in Appendix to Edwards' Catalogue of Diurnal Lepidoptera, etc., 1877.

Sprague, C. J.

Stett. Ent. Zeit.—Entomologische Zeitung, Stettin.

Str.—Strecker, H.

Lep.—Lepidoptera. Parts I—XV, Reading, Pa., 1872-78.

Cat.—Synonymical Catalogue of Macrolepidoptera, 1878.

Stretch, R. H.

Swainson Wm.

Thart.—Thaxter, R.

Thunb.—Thunberg, C. P.

Diss. Ent. Suec.—Dissertatio Entomologiæ sistens Insecta Suecica, Upsal, 1784-95.

Tr. A. E. Soc.—Transactions of the American Entomological Society.

Tr. Ac. Sci. St. Louis.—Transactions of the Academy of Natural Sciences St. Louis.

Tr. Chic. Ac. N. Sci.—Transactions of the Chicago Academy of Natural Sciences.

Tr. Kans. Ac. N. Sci.—Transactions of the Kansas Academy of Natural Sciences.

Tr. N. Y. St. Ag. Soc.—Transactions of the New York State Agricultural Society.

Tr. N. Y. St. Cab. N. Hist.—Transactions of the New York State Cabinet of Natural History.

Tr. N. Y. St. Mus. N. Hist.—Transactions of the New York State Museum of Natural History.

U. S. Agr. Rep.—United States Agricultural Reports.

Walsh, B. D.

West.—Westwood, J. O.

West.-Hew.—(Doubleday) Westwood and Hewitson. The Genera of Diurnal Lepidoptera.

Whitn.—Whitney, C. P.

Wien. Ent. Monat.—Wiener Entomologische Monatschrift.

Wittfeld, Dr. W.

Worth.—Worthington, C. E.

References are to volume and page.

Signs used.—♂, male; ♀, female.

* mention of preparatory stages, or habits of butterfly.

† species unknown to me, and perhaps not properly classified.

The heavy lines indicate sub-groups.

Aberr.—Aberration, sport.

Auct.—On authority of.

Coll.—Collection of.

By.—Taken by.

Dim.—Dimorphic.

NAMES OF STATES, ETC.

Antic.—Anticosti.

Ark.—Arkansas.

Ariz.—Arizona.

Atl.—Atlantic.

Br. Am.—British America.

Br. Col.—British Columbia.

Cal.—California.

Col.—Colorado.

Conn.—Connecticut.

Dak.—Dakota.

Ga.—Georgia.

Gulf. St.—Gulf States.

Ia.—Iowa.

Ill.—Illinois.

Ind.—Indiana.

Ind. Terr.—Indian Territory.

Kans.—Kansas.

Ky.—Kentucky.

Labr.—Labrador.

L. I.—Long Island.

Mass.—Massachusetts.

Md.—Maryland.

Me.—Maine.

Mex.—Mexico.

Mich.—Michigan.

Minn.—Minnesota.

Miss.—Mississippi.

Mo.—Missouri.

Mont.—Montana.

N. B.—New Brunswick.

N. C.—North Carolina.

N. E.—New England.

Neb.—Nebraska.

N. F'land.—Newfoundland.

Nev.—Nevada.

N. H.—New Hampshire.

N. J.—New Jersey.

N. Mex.—New Mexico.

N. Sco.—Nova Scotia.

N. Y.—New York.

Ont.—Ontario.

Oreg.—Oregon.

Pa.—Pennsylvania.

Pac.—Pacific.

Queb.—Quebec.

San Berno.—San Bernardino.

Saskatch.—Saskatchewan.

St.—States.

Tenn.—Tennessee.

U. S.—United States.

Va.—Virginia.

Vanc. Isld.—Vancouver's Island.

W. Ind.—West Indies.

Wis.—Wisconsin.

W. Terr.—Washington Territory.

W. Va.—West Virginia.

CATALOGUE.

PAPILIONIDÆ.

PAPILIONINÆ.

PAPILIO, Linnaeus.

Group I.

1. **Ajax**, Linn., Syst. Nat., 1, 2, 750, 1767; Grub., Jen. Zeitschr. Nat., 17, 473, pl. 7, figs. 16-19, 1884 *.

Winter form **WALSHII**, Edw., But., 1, 1, pl. 1, 1871 *.

Marcellus, Cram., 2, pl. 98, figs. F. G. 1779.

var. **ABBOTII**, Edw., l. c., pl. 1, fig. 6, 1871; Mundt, Can. Ent., 15, 87, 1883.

Ajax, Sm.-Abb., pl. 4, 1797.

Winter form **TELAMONIDES**, Feld., Reise Nov., Lep., 1, 60, 1865, id., Sp. Lep., 59, 1864; Edw., But., 1, 5, pl. 2, 1871 *.

Ajax, Bd.-Lee., pl. 1, 1833.

Summer form **MARCELLUS**, Bd., 8, pl. 2, 1833; Edw., But., 1, 7, pl. 3, 1871 *.

Ajax, Esp., Eur. Schmett., 1, pl. 51, 1780. (For experiments upon the effect of cold applied to chrysalids of the forms of *Ajax*, see Edw., Can. Ent., 7, 236, 1875; also Psyche, 3, pp. 3 and 17, 1880).

Hab.—Pa. to Texas; Miss. Valley; occasl. Hamilton, Ont. (by Moffat.)

Group II.

2. **Philenor**, Linn., Mant., 535, 1771; Sm.-Abb., pl. 3, 1797 *; Say, Am. Ent., 1, pl. 1, 1824; Bd.-Lee., 29, pl. 11, 1833 *; Bd., Sp. Gen., 1, 324, 1836; Riley, 3d Mo. Ent. Rep., 116, 1870 *; H. Edw., Pr. Cal. Ac. N. Sci., 161, 1873 *; Edw., Can. Ent., 13, 9, 1881 *; Grub., Jen. Zeitschr. Nat., 17, 474, pl. 7, figs. 20-42, 1884 *.

Astinous, Dru., 1, pl. 11, 1773; Cram., 3, 208, figs. A. B. 1872.

Hab.—U. S. generally; Ont.

Group III.

3. **Machaon**, var. **ALASKA**, Scud., Pr. Bost. Soc. N. H., 12, 45, 1869; Edw., Can. Ent., 13, 63, 1881; id., Papilio, 2, 74, 1882; 3, 50, 1883; id., But., 2, pl. 14, 1884 *.
Hab.—Oreg.; Br. Am.; Alaska.
4. **Oregonia**, Edw., But., 2, pl. 7, 1880, l. c., 2, pl. 14, 1884 *;
 Hagen, Papilio, 2, 152, et seq. 1882; id., Pr. Bost. Soc. N. H., 22, 105, 1882; Edw., Papilio, 3, 45, et seq. 1883.
Hippocrates var. *Oregonia*, Edw., Tr. A. E. Soc., 5, 208, 1876.
Hab.—Oreg.; W. Terr.; Vanc. Island.
5. **Zolicaon**, Bd., Ann. Soc. Ent. Fr., 2, 10, 281, 1852; Edw., But., 2, pl. 6, 1875 *; id., l. c., 2, pl. 14, 1884 *; H. Edw., Pr. Cal. Ac. N. Sci., 5, 163, 1873 *; Str., Lep., pl. 6, fig. 3, ♀, 1873; Hag., Papilio, 2, 152, et seq. 1882; id., Pr. Bost. Soc. N. H., 22, 105, et seq. 1882; Edw., Papilio, 3, 45, et seq. 1883.
Hab.—Oreg. to Ariz.; Mont.; Col.
6. **Americus**, Koll., Denkschr. Ak. Wiss. Wien, Math. Nat. Cl., 1, 354, 1850; Edw., Papilio, 3, 55, 1883.
Sadulus, Luc., Rev. Zool., 1852, 133, pl. 10.
Hab.—Ariz.
7. **Nitra**, Edw., Papilio, 3, 162, 1883.
Hab.—Mont.
8. **Indra**, Reak., Pr. E. Soc. Phil., 6, 123, 1866; Edw., But., 2, pl. 9, 1878; Str., Lep., pl. 2, fig. 1, ♂, 1873; Putn., Pr. Dav. Ac. N. Sci., 1, pl. 35, ♀, 1876.
Hab.—Col.; Nev.; Cala.
9. **Pergamus**, H. Edw., Pr. Cal. Ac. N. Sci., 5, 423, 1874.
Hab.—So. Cala.
10. **Brevicauda**, Saund., in Packard's Guide, 245, 1869; Edw., But., 2, pl. 8, 1875, pl. 8 B, 1880 *.
Anticostiensis, Str., Lep., pl. 2, fig. 2, ♀, 1873.
Hab.—N. F'land.; Antic.; Labr.; Queb.
11. **Bairdii**, Edw., ♂, Pr. E. Soc. Phil., 6, 200, 1869; Mead, Rep. Wheeler Exp., 5, 740, 1875; Edw., ♀, Can. Ent., XI, 83, 1879; id., But., 2, pl. 10, 1880.
Asterias, var. *Utahensis*, Str., Cat., p. 72, 1878.
Hab.—Ariz.

12. *Asterias*, Fab., Mant., 2, 1787; Bd.-Lec., 14, pl. 4, 1833 *; Bd., Sp. Gen., 1, 332, 1836; Harr., 263, pl. 4, 1862 *; Lintn., Pr. E. Soc. Phil., 3, 51, 1864 *; H. Edw., Pr. Cal. Ac. N. Sci., 164, 1873 *; Edw., But., 2, pl. 14, 1884 *; Grub., Jen. Zeitschr. Nat., 17, 467, pl. 7, figs. 1-5, 1884 *; Fern. But. Me., 21, 1884 *; bi-form, Edw., But., 2, pl. 11.

aberr. CALVERLEYII, Gro., Pr. E. Soc. Phil., 2, 441, pl. 10, ♂, 1864; Mead, Am. Nat., 3, 332, ♀, 1869; Edw., l. c., 2, pl. 11, ♂ ♀, 1877.

var. ASTEROIDES, Reak., (not Str.) Pr. Ac. N. Sci. Phil., 43, 1866.

Troilus, Sm.-Abb., pl. 1, 1797.

Hab.—Atl. to Pac.; U. S. generally; Ont.; Queb.

Group IV.

13. *Troilus*, Linn., Mus. Lud. Ulr., 187, 1764; Bd.-Lec., 26, pl. 10, 1833 *; Bd. Sp. Gen., 1, 334, 1836; Harr., 266, 1862 *; Saund., Can. Ent., 1, 73, 1869 *; Grub., Jen. Zeitschr. Nat., 17, 471, pl. 7, figs. 12-15, 1884 *.

Ilioneus, Sm.-Abb., pl. 2, 1797; Feld., Verh. Zool. Bot. Ges., 14, 315, 364, 1864; id., Sp. Lep., 76, 1864.

Hab.—Atl., Southn., Westn. States.

14. *Palamedes*, Dru., 1, 19, 1773; Cram., 1, 93, fig. A. B., 1779; *Calchas*, Fab., Syst. Ent., 453, 1775; Bd.-Lec., 17, pl. 5, 1833 *; id., Spec. Gen., 1, 373, 1836; Edw., Can. Ent., 13, 119, 1881 *.

Hab.—Gulf States; Fla. to Va.

Group V.

15. *Turnus*, Linn., Mant., 536, 1771; Say, Am. Ent., pl. 40, 1828; Bd.-Lec., 19, pl. 6, 7, 1833 *; Harr., 268, figs. 97, 98, 1862 *; Saund., Can. Ent., 1, 74, 1869; 6, 2, 1874 *; Edw., But., 2, pl. 3, 4, 5, 1877 *; Grub., Jen. Zeitschr. Nat., 17, 470, pl. 7, figs. 7-11, 1884 *; Fern., But. Me., 23, 1884 *.

Hab.—Atl. St.; Miss. Valley to Texas; Queb.; Ont.; N. F'land.; Br. Am.; Alaska.

dim. form, ♀, GLAUCUS, Linn., Mus. Lud. Ulr., 190, 1764; Bd.-Lec., pl. 8, 9, 1833; Rid., Pr. E. Soc. Phil., 1, 266, 1862; Walsh, l. c., 1, 349, 1862; Edw., But., 2, pl. 3, 4, 1877; bi-form, Edw., l. c., pl. 5, cit.; interm. form, id., pl. 5, cit.

Hab.—New York and South and West; Fort Meleod, Br. Am. (auct. Geddes.)

16. **Eurymedon**, Bd., Ann. Soc. Ent. Fr., 2, 10, 280, 1852; Seud., Pr. Bost. Soc. N. Hist., 13, 1870 *; Edw., But., 2, pl. 1, 1874 *; H. Edw., Pr. Cal. Ac. N. Sci., 5, 164, 1873 *; Str., Lep., pl. 4, fig. 1, ♂, 1873; Mead, Psyche, 2, 180, 1878 *.
var. **ALBANUS**, Feld., Reise Nov. Lep., 1, 93, 1865; H. Edw., Papilio, 2, 122, 1882.
Hab.—Cal. to Br. Col.; Ariz. to Mont.; Br. Am. (auct. Geddes.)
17. **Rutulus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 279, 1852; H. Edw., Pr. Cal. Ac. N. Sci., 5, 165, 1873 *; id., Papilio, 2, 112, 1882 *; Mead, Psyche, 2, 180, 1878 *; Hagen, Papilio, 2, 160, 1882; Edw., Papilio, 3, 2, 1883; id., But., 2, text, pl. 12, 13, 1884 *.
Hab.—Pac. States; Br. Col.; Col. to Mont.
var. **ARIZONENSIS**, Edw., Papilio, 3, 4, 1883; id., But., 2, pl. 13, 1884.
Hab.—Ariz.; N. Mex.; Col.
18. **Daunus**, Bd., Sp. Gen., 1, 342, 1836; Rid., Pr. E. Soc. Phil., 1, 278, fig. 2, 1862; Edw., But., 2, pl. 2, 1874; H. Edw., Pr. Cal. Ac. N. Sci., 5, 325, 1873 *; Mead, Rep. Wheeler Exp., 5, 741, 1875; Str., Lep., pl. 6, figs. 1, 2, 1873; Edw., Papilio, 3, 2, 1883 *.
Hab.—Ariz. to Mont.; Utah; Nev.; Oreg.; Mex.
19. **Pilumnus**, Bd., Sp. Gen., 1, 340, 1836; Mén., Cat. Mus. Petr., 2, 110, pl. 7, fig. 2, 1857; Str., Lep., pl. 2, fig. 3, ♂, 1873.
Hab.—Ariz.; Mex.

Group VI. *

20. **Cresphontes**, Cram., 2, 165 A, 166 B, 1779.
Thoas, var. **Cresphontes**, Bd., Sp. Gen., 1, 355, 1836; *Thoas*, Bd.-Lec., 31, pl. 12, 13, 1833 *; Saund., Can. Ent., 10, 48, 1878 *; Boll., l. c., 10, 154, 1878 *; French, l. c., 13, 177, 1881 *; Ashm., Orange Ins., 47, 1880 *; Mundt, Papilio, 3, 25, 1883.
Hab.—Southn and Westn St.; is moving east and north; Ohio; W. Va.; Mich.; N. Y.; Conn.; Ont.; Queb.; St. Johns, N. B.
21. **Thoas**, Linn., Mant., 536, 1771; Dru., 1, pl. 22, 1773; Cram., 2, 167, figs. A. B., 1779; Bd., Sp. Gen., 1, 355, 1836.
Hab.—So. Ariz. (by Morrison); S. W. Texas (in coll. Aaron); Mex.

Group VII.

22. **Polydamas**, Linn., Mus. Lud. Ulr., 192, 1764; Dru., 1, 17, 1773; Cram., 3, 211, figs. D. E., 1782; Bd. Spec. Gen., 1, 321, 1836; Bd.-Lec., 37, pl. 15, 1833; Morr., 4, 1862.

Hab.—Indian River, Fla. (by Wittfeld); Cuba; Mex.

PARNASSIUS, Latreille.

23. **Clodius**, Mén., Cat. Mus. Petr., 1, 73, 1855; Edw., But., 1, 18, pl. 4, figs. 5, 6 ♂, 1871; H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.

Clarius, Bd. (not Eversm.), Ann. Soc. Ent. Fr., 2, 10, 283, 1852; Edw., l. c., 1, 17, pl. 1, figs 1-4, 1871.

Baldur, Edw., Cat. Lep., 12, 1877; Mead, Psyche, 2, 180, 1878.

Hab.—Cala.; Utah; Nev.; Mont.

var. **MÉNÉTRIÉSI**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.

Hab.—Sier. Nev.; Lake Tahoe; Mt. Nebo, Utah.

24. **Smintheus**, Doubl.-Hew., Gen. Di. Lep., pl. 4, 1847; Edw., But., 1, 21, pl. 5, 6, 7, 1872 *.

Sayii, ♀, Edw., Pr. E. Soc. Phil., 2, 78, 1863; id., But., 1, pl. 5, fig. 2, 1872; Mead, Rep. Wheeler Exp., 7, 742, 1875; Behrens, Papilio, 2, 50, 1882.

Hab.—Rocky Mts., Col. to Mont.; N. Mex.; Mt. Bradley, Cala.

var. **BEHRII**, Edw., Tr. A. E. Soc., 3, 10, 1870; id., But., 1, pl. 6, fig. 3 ♂ 4 ♀, 1872; Mead, Psyche, 2, 181, 1878 *.

Hab.—Nev.; Utah.

var. **HERMODUR**, H. Edw., Papilio, 1, 4, 1881; Edw., Papilio, 3, 158, 1883.

Hab.—Col.; Mont.; Br. Am.

25. † **Nomion**, Fisch., Ent. Russ., 2, 242, pl. 6, 1823; Bd. Sp. Gen., 1, 397, pl. 2, 1836.

Hab.—Alaska. (coll. Behr.)

26. **Eversmanni**, Mén., Cat. Mus. Petr., 1, 73, pl. 1, figs. 1, 2 ♂, 1855; Seud., Pr. Bost. Soc. N. Hist., 12, 45, 1869; Edw., But., 1, 27, pl. 7, figs. 6, 7, ♂, 1872.

♀ *Wosnesenski*, Mén., l. c., pl. 1, fig. 3, 1855.

var. ♀, **THOR.** H. Edw., Papilio, 1, 4, 1881; id., l. c., 2, 148, 1882.

Hab.—Alaska; Siberia.

PIERINÆ.

NEOPHASIA, Behr.

27. **Menapia**, Feld., Wien. Ent. Monat., 3, 271, 1859; id., Reise Nov. Lep., 181, pl. 25, 1865; Edw., But., 1, 27, pl. 8, 1871; id., ♀, l. c., Supp. Notes, 1872; Str., Lep., pl. 2, fig. 4, ♀, 1873; H. Edw., Pr. Cal. Ac. N. Sci., 5, 165, 1873 *; Mead, Rep. Wheeler Exp., 5, 743, 1875; Stretch, Papilio, 2, 103, 1882 *; Hag., Pr. Bost. Soc. N. Hist., 22, 134, 1882.
Tuu, Scud., Pr. Bost. Soc. N. Hist., 3, 183, 1861.
Ninonia, Bd. Lep. de la Cala., 38, 1869.
 var. *SUFFUSA*, Stretch, Papilio, 2, 110, pl. 2, 1882.
Hab.—Cala.; Oreg.; W. Terr.; Vanc. Isld.; Col.

PIERIS, Schrank.

Group I.

28. **Amaryllis**, Fab., Ent. Syst., 3, 1, 189, 1797; Don., Ins. Ind., pl. 28, 1800.
Josephina, Godt., Enc. Meth., 9, 158, 1819; Bd., Spec. Gen., 1, 532, 1836.
Hab.—So. Texas; Mex.

Group II.

29. **Ilaire**, Godt., Enc. Meth., 9, 142, 1819; Poey, Cent. Lep. Cuba, pl. 19, 1833; Bd., Spec. Gen., 1, 491, 1836.
Hab.—Indian River, Fla.; Texas; Ariz. (by Morrison)

Group III.

30. **Monuste**, Linn., Mus. Lud. Ulr., 237, 1764; Bd., Sp. Gen., 1, 495, 1836; Morr., 4, 1862; Riley, U. S. Agr. Rep., 1883, 117, pl. 10 *.
Monusta, Cram., 2, pl. 141, fig. F, 1779.
Cleomes, Bd.-Lec., 43, pl. 16, 1883 *.
Hab.—Southn. St.; Texas.

Group IV.

31. **Beckerii**, Edw., But., 1, 30, pl. 8, 1871; id., l. c., 2, pl. 1 of *Pieris*, 1883 *; Mead, Rep. Wheeler Exp., 5, 745, 1875; id., *Psyche*, 2, 183, 1878 *; Hag., Pr. Bost. Soc. N. H., 22, 139, 1882.
Hab.—Nev.; Utah; Cala.; Oreg.; W. Terr.; Col.; Ariz.

32. *Sisymbri*, Bd., Ann. Soc. Ent. Fr., 2, 10, 284, 1852; Mead, Psyche, 2, 184, 1878 *; Edw., But., 2, pl. 1 of *Pieris*, 1883 *.
Hab.—Cala.; Nev.; Col.; Ariz.

Group V.

33. *Nelsoni*, Edw., But., 2, pl. 1 of *Pieris*, 1883.

Hab.—St. Michael's, Alaska.

34. *Occidentalis*, Reak.

winter form *CALYCE*, Edw., Tr. A. E. Soc., 3, 189, 1870.

Leucodice, Bd., (not Eversm.) Ann. Soc. Ent. Fr., 2, 10, 284, 1852.

summer form *OCCIDENTALIS*, Reak., Pr. E. Soc., Phil., 6, 133, 1866; Mead, Psyche, 2, 184, 1878.

Hab.—Rocky Mts. to Pac.; Cala. to Oreg.; Br. Am.

35. *Protodice*, Bd.-Lec.

winter form *VERNALIS*, Edw., Pr. E. Soc. Phil., 2, 501, 1864; id., But., 1, 33, pl. 9, 1871; Bean, Can. Ent., 9, 201, 1877 *.

summer form *PROTODICE*, Bd.-Lec., 45, pl. 17, 1833; Riley, second Mo. Ent. Rep., 104, 1870 *; id., U. S. Agr. Rep., 1883, 114, pl. 10 *.

Nasturtii, Edw. (not Boisd.), Pr. E. Soc. Phil. 501, 1864.

Hab.—Mid., South., Westn. St. to Pac.; Br. Am.

Group VI.

36. *Napi*, Esper.

Arctic form *BRYONLÆ*, Ochs., Eur. Schmett., 1, 2, 151, 1808; Edw., Papilio, 1, 86, pl. 2, fig. 4, 1881.

Hab.—Alaska.

var. *HULDA*, Edw., Tr. A. E. Soc., 2, 370, 1869; id., Papilio, 1, pl. 2, fig. 5.

Hab.—Kodiak, Alaska.

1. winter form *VENOSA*, Scud., Pr. Bost. Soc. N. Hist., 8, 182, 1861; Edw., Papilio, 1, pl. 2, fig. 6; Str., Lep. pl. 8, fig. 2, 3, 1874.

Hab.—Cala. to Br. Col.

aberr. *FLAVA*, Edw., l. c., 98, 1881.

Hab.—Cala.

2. winter form *OLERACEA-HIEMALIS*, Harr., N. E. Farm., 8, 402, 1829; id., in Agas. L. Supr., 386, 1850 *; Edw., l. c., pl. 2, fig. 8; Riley, U. S. Agr. Rep., 1883, 108, pl. 1 *.
var. *BOREALIS*, Gro., Buff. Bull., 1, 185, 1873; Edw., l. c., pl. 2, fig. 9.

Hab.—Labr.; Antici.

var. *FRIGIDA*, Scud., l. c., 8, 181, 1861.

Hab.—Boreal Am.

- aberr. *VIRGINIENSIS*, Edw., Tr. A. E. Soc., 3, 13, 1870; id., But., 1, 34, pl. 9, 1871.

Hab.—N. Y.; Ont.

3. 1. summer form *ACADICA*, Edw., Papilio, 1, 87, pl. 3, fig. 10, 11, 1881.

Hab.—N. F'land.

2. summer form, *a. PALLIDA*, Scud., l. c., 183, 1861; Str., Lep., 8, fig. 5 ♀; Edw., l. c., pl. 3, fig. 12, 13.
Nasturtii, Bd., Lep. de la Cala., 38, 1869.

Hab.—Cala. to Br. Col.

b. CASTORIA, Reak. ♂, Pr. Ac. N. Sci.

Phil., 1866, 31; Str., Lep., 8, fig. 4, 1874; Edw., l. c., pl. 3, fig. 14, 1881.

Resedæ, Bd., Lep. de la Cala., 39, 1869.

Hab.—Cala. to Br. Col.

- aberr. *FLAVA*, Edw., l. c., 94, 1881.

Hab.—Cala.

3. summer form *OLERACEA-ÆSTIVA*, Harr., in Agas. L. Supr., 386, pl. 7, fig. 1, ♀, 1850; id., Ins. Mass., 270, fig. 99; Edw., l. c., pl. 3, fig. 15, 16; Fern., But. Me., 25, 1884 *.

Castæ, Kirby, Faun. Bor. Am., 4, pl. 3, fig. 1, 1837.

Cruciferarum, Bd., Sp. Gen., 1, 519, ♂, 1836.

Hab.—N. E. to Mich.; Ont.; Queb.

37. *Virginienis*, Edw., Tr. A. E. Soc., 3, 13, 1870; id., But., 1, 34, pl. 9, 1871; id., Papilio, 1, 95, pl. 3, fig. 17, 18, 1881.

Hab.—W. Va.

38. **Rapæ**, Linn., Syst. Nat., 759, 1767; Riley, second Mo. Ent. Rep., 1870 *; id., U. S. Agr. Rep., 1883, 108, pl. 1 *; Fern. But. Me., 27, 1884 *.

var. **MARGINALIS**, Scud., Pr. Bost. Soc. N. Hist., 8, 182, 1861.

Rapæ, Str., Lep., 8, fig. 6, 1874.

var. **YREKA**, Reak., Proc. Ac. N. Sci. Phil., 1866, 32.

Resedæ, Bd., Lep. de la Cala., 39, 1869.

Rapæ, Str., Lep., 8, fig. 7, 1874.

Hab.—N. E. to Rocky Mts.; Br. Am. to Pacific; N. Seo.

var. **MANNI**, Mayer; Stet. Ent. Zeit., 1851, p. 151.

Hab.—Ga.

var. **NOV-ANGLIÆ**, Scud., Can. Ent., 4, 79, 1872; Str., Lep., 8, fig. 8.

Hab.—East. St.

NATHALIS, Boisduval.

39. **Iole**, Bd., Sp. Gen., 1, 589, 1836; Mead, Rep. Wheeler Exp., 5, 747, 1875.

var. **IRENE**, Fitch, Tr. N. Y. St. Ag. Soc., 485, 1856.

Hab.—Ill.; Mo. to Cala.; N. Mex.; Ariz.

ANTHOCHARIS, Boisduval.

Group I.

40. **Lanceolata**, Bd., Ann. Soc. Ent. Fr., 2, 10, 284, 1852; Morr., 4, 1862; Str., Lep., pl. 6, fig. 5, 1873; Mead, Psyche, 2, 183, 1878 *.

Edwardsii, Behr., Tr. A. E. Soc., 2, 304, 1869.

Hab.—Cala.; Nev.; Ariz.

Group II.

41. **Creusa**, Doubl.-Hew., Gen. Di. Lep., pl. 7, 1847.

Hab.—So. Cala.; Ariz.; Utah.

42. **Hyantis**, Edw., Tr. A. E. Soc., 3, 205, 1871; H. Edw., Pr. Cal. Ac. N. Sci., 1878; Mead, Psyche, 2, 183, 1878 *.

Hab.—Col.; Cala.; Ariz.

43. **Olympia**, Edw., l. c., 3, 266, 1871; id., But., 2, pl. 1 of Anth., 1874.

Hab.—W. Va.; Ind.; Neb.

44. **Rosa**, Edw., Papilio, 2, 45, 1882.

Hab.—West Texas.

45. **Ausonides**, Bd., Ann. Soc. Fr., 2, 10, 286, 1852; Edw., Pat., 2, pl. 1 of Anth., 1874; Mead. Rep. Wheeler Exp., 1, 747, 1875 *.

var. **COLORADENSIS**, H. Edw., Papilio, 1, 1881.

Hab.—Col. to Cala.; Ariz.; Br. Am.; Youcon River, Alaska.

Group III.

46. **Cethura**, Feld., Reise Nov. Lep., 2, 182, pl. 25, 1865.
Cooperi, Behr., Tr. A. E. Soc., 2, 304, 1869; Edw., But., 1, 38, pl. 10, 1870.

Angelina, Bd., Lep. de la Cala., 40, 1869.

Hab.—So. Cala.

47. **Morrisoni**, Edw., Papilio, 1, 43, 1881.

Hab.—Kern River, Cala.

48. **Thoosa**, Scud., ♀, Hayden Bull., 4, 257, 1878; Edw., ♂, ♀, Can. Ent., 11, 87, 1879.

Hab.—Utah; Ariz.

49. **Sara**, Bd., Ann. Soc. Ent. Fr., 2, 10, 285, 1852; Edw., But., 1, 39, pl. 11, 1871.

Hab.—Cala.

50. **Reakirtii**, Edw., Tr. A. E. Soc., 2, 369, 1869; id., But., 1, 37, pl. 10, 1870.

Hab.—Cala.

51. **Stella**, Edw., Can. Ent., 11, 87, 1879.

Hab.—Nev.; Cala.; Oreg.; Ariz.

52. **Julia**, Edw., Tr. A. E. Soc., 4, 61, 1872; id., But., 2, pl. 2 of Anth., 1878; Str., Lep., pl. 6, figs. 6, 7, 1873.

Hab.—Col.; N. Mex.; Ariz.; Mont.

53. **Genutia**, Fab., Ent. Syst., 3, 193, 1793; Bd., Sp. Gen., 1, 565, 1836; Edw., l. c., 2, pl. 2 of Anth., 1878.

Hab.—N. Y. to Va.; West. St.; Texas.

CALLIDRYAS, Boisduval.

Group I.

54. **Eubule**, Linn., Syst. Nat., 2, 743, 1766; Sm.-Abb., pl. 5, 1797 *; Bd.-Lec., 74, pl. 24, 1833 *; Butl., Lep. Ex., 58, pl. 22, 1874; Edw., Tr. A. E. Soc., 9, 12, 1881.

Hab.—So. St. to W. Va. and Ohio; Ill.; Iowa; Ariz.; So. Cala.; occasl. N. Y.; also R. I. (auct. Clark)

55. **Sennæ**, Linn., Syst. Nat., 2, 764, 1766; Butl., l. c., 59, pl. 23, 1874; Edw., l. c., 9, 11, 1881.

♂ *Marcellina*, Cram., 2, 163, figs. A, C, 1779.

♀ *Eubule*, Cram., 2, 120, figs. E, F, 1779.

var. ♀ **ORBIS**, Poey, Cent. Lep. Cuba, pl. 1, 1832.

Hab.—Indian River, Fla.; Texas; Ariz.

Group II.

56. **Philea**, Linn., Syst. Nat., 2, 764, 1766; Butl., l. c., 92, pl. 35, 1874; Edw., l. c., 9, 13, 1881.

Hab.—Occasl. Texas; also Ill. (see Am. Ent., 2, 340); also near Racine, Wis. (auct. Hoy, see Papilio 4, 113)

57. **Agarithe**, Bd., Sp. Gen., 1, 623, 1836; Butl., l. c., 121, pl. 45, 1874; Edw., l. c., 9, 13, 1881.

Hab.—Fla.; Texas; Kans.; Ariz.; occasl. Neb.

KRICOGONIA, Reakirt.

58. **Lyside**, Godt.

1. winter form **LYSIDE**, Godt., Enc. Meth., 9, 98, 1819; Bd., Sp. Gen., 1, 603, 1836.

2. summer form **TERISSA**, Luc., Rev. Zoöl., 1852, 429.

Hab.—Texas; Indian River, Fla.

59. **Fantasia**, Butl., Tr. Ent. Soc., Lond., 1871, p. 170, pl. 7, fig. 6.

Hab.—Texas.

60. † **Lanice**, Lint. MSS.

Hab.—Rio Grande, Texas.

COLIAS, Fabricius.

Group I.

61. **Eurydice**, Bd., Ann. Soc. Ent. Fr., 3, 32, 1855; Edw., But., 1, 53, pl. 16, 1870; H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876 *; Edw., Can. Ent., 15, 224, 1883 *.

• *Wosnesenski*, Mén., Cat. Mus. Petr., 1, 77, pl. 1, 1855.

♀ *Rhodocera Lorquini*, Bd., l. c., 3, 52, 1855.

dim. form **AMORPHÆ**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.

Hab.—Cala.; Ariz.; Oreg.

62. **Cæsonia**, Stoll, Suppl. Cram., pl. 41, figs. 2, 2 B, 1790; Bd.-Lee., 67, pl. 22, 1833 *; Bd., Sp. Gen., 1, 635, 1836; Morr., 27, 1862.

Hab.—So. States; Miss. Valley; Texas to Cala.; occasl. Minn.

Group II.

63. **Meadii**, Edw., Tr. A. E. Soc., 3, 267, 1871; id., But., 1, 60, pl. 19, 1872; Mead, Rep. Wheeler Exp., 5, 750, 1875.

Hab.—Col.; Mont.; N. Mex. (Alpine)

64. **Hecla**, Lef., Ann. Soc. Ent. Fr., 5, 383, pl. 9, 1836.

Hab.—Arctic, Greenland to Behring's Straits.

var. **GLACIALIS**, McLachl., Linn. Soc. Jl., 14, 108, 1878.

Hab.—Grinnell Land.

var. **HECLA**, Str., Br. Bull., 3, 33, 1880.

Hab.—Hudson's Bay.

65. **Boothii**, Curt., App. Ross Exp., 65, pl. A, figs. 3-5, 1835.

var. **CHIONE**, Curt., l. c., pl. A, fig. 6, 1835.

Hab.—Arctic Am.

66. **Eurytheme**, Bd.

1. 1. winter form **ARIADNE**, Edw., Tr. A. E. Soc., 3, 12, 1870; id., But., 2, pl. 4 of *Colias*, 1878.

2. winter form **KEEWAYDIN**, Edw., But., 1, 49, pl. 15, 1869; vol. 2, pl. 4 of *Colias*, 1878.

2. summer form **EURYTHEME**, Bd., Ann. Soc. Ent. Fr., 2, 10, 286, 1852; Edw., l. c., 1, 45, pl. 14, 1869; vol. 2, pl. 4 of *Colias*, 1878 *; H. Edw., Pr. Cal. Ac. N. Sci., 5, 162, 1873 *; Boll. Deuts. Entom. Zeits., Berlin, 1880, 24, 249; Edw., *Papilio*, 3, 182-185, 1883; Sprague, Can. Ent., 12, 100, 1880.

Amphidusa, Bd., Ann. cit., 2, 10, 286, 1852.

Edusa, var. *Californica*, Mén., Cat. Mus. Petr., 1, p. 80, 1855.

Chrysotheme, Str. (not Esper) Cat., 83; Hagen, Pr. Bost. Soc. N. Hist., 22, 173, 1882 (see Edw. *Papilio*, 3, 171, 1883).

Hab.—Westn. States to Pac.; Br. Am.; occasl. in Mid. States to Mass.; Ont.; Queb.

67. **Hagenii**, Edw., *Papilio*, 3, 163, 1883 *.

Hab.—Col. to Mont.; Br. Am.

68. **Philodice**, Godt., Enc. Meth., 9, 100, 1819; Bd.-Lec., 64, pl. 21, 1833; Harr., 272, figs. 100-102, 1862 *; Saund., Can.

- Ent., 1, 54, 1869 *; Riley, second Mo. Ent. Rep., 116, 1870 *; Edw., But., 2, pl. 2, 3 of *Colias*, 1876 *; Fern., But. Me., 30, 1884 *.
- var. *ANTHYALE*, Hüb., Zutr. Ex. Schmett., figs. 307, 308, 1823; Edw., But., 2, pl. 2, cit.
- var. *ALBINIC*, Edw., l. c., 2, pl. 2, cit.
- var. *MELANIC*, id., pl. 3, cit.
- Hab.*—Atl. States; Miss. Valley; Ont.; Queb.; N. Seo.
69. *Eriphyle*, Edw., Tr. A. E. Soc., 5, 202, 1876.
- Hab.*—Br. Col.
70. *Harfordii*, H. Edw., ♂, Pr. Cal. Ac. N. Sci., 7, 1877.
- Barbara*, H. Edw., ♀, l. c., 6, 1877; Edw., *Papilio*, 4, 2, 1884 *.
- Hab.*—Cala.
71. *Occidentalis*, Seud., Pr. Bost. Soc. N. Hist., 9, 109, 1862; Edw., But., 1, 57, pl. 18, 1871.
- Hab.*—Fort Simpson; Br. Am.; Vanc. Isl'd.
- Southern form *CHRYSOMELAS*, H. Edw., Pr. Cal. Ac. N. Sci., 7, 1877.
- Hab.*—North. Cala.; Utah.
72. *Christina*, Edw., Pr. E. Soc. Phil., 2, 79, 1863; id., But., 1, 43, pl. 13, 1868; id., *Papilio*, 4, 30, 1884; Lyman, Can. Ent., 16, 5, 1884.
- Hab.*—Slave River south; Red Deer River; Mt. Judith, Mont.
- Southern form *ASTRÆA*, Edw., Tr. A. E. Soc., 4, 61, 1872; id., *Papilio*, 4, 30, 1884.
- Hab.*—Yellow Stone and Mt. Judith, Mont.; Red Deer River; Br. Am. (by Geddes)
73. *Alexandra*, Edw., Pr. E. Soc. Phil., 2, 14, pl. 11, 1863; id., But., 1, 41, pl. 12, 1868; Mead, Rep. Wheeler Exp., 5, 749, 1875 *.
- Hab.*—Col.; Mont.; Br. Am. (by Geddes)
74. *Edwardsii*, Behr., in But. N. A., 1, 55, pl. 17, 1870.
- Hab.*—Nev.; Utah; Owen's Lake, So. Cala.; Mt. Hood, W. Terr. (by Morrison); Mont.; Edmonton, Br. Am. (by Geddes)
75. *Emilia*, Edw., Tr. A. E. Soc., 3, 12, 1870.
- Hab.*—Oreg.

76. **Interior**, Seud., Pr. Bost. Soc. N. Hist., 9, 108, 1862; Fern., But. Me., 32, 1884.

Philodice, var. *Laurentina*, Seud., l. c., 18, 4, 1876.

Hab.—Cape Breton Isl'd.; Lower St. Lawrence, Queb.; Nipegon River; Saskatch.; Me.

77. **Scudderii**, Reak., Pr. E. Soc. Phil., 4, 217, 1865; Edw., But., 1, 59, pl. 19, 1872; Mead, Rep. Wheeler Exp., 5, 749, 1875.

Hab.—Col.; Mont.; Br. Col.; Br. Am. (by Geddes)

78. **Pelidne**, Bd., Icones, pl. 8, 1832; Bd.-Lec., 66, 1833; id., Sp. Gen., 1, 644, 1836; Mösch., Wien. Ent. Monat., 4, 349, 1860; Edw., But., 2, pl. 1 of *Colias*, 1874.

Labradorensis, Seud., Pr. Bost. Soc. N. Hist., 9, 107, 1862.

Hab.—Labr.; Ungava Bay.

79. **Palæno**, Linn., Syst. Nat., 2, 764, 1767; Bd., Sp. Gen., 1, 645, 1836.

Hab.—Labr.: Alaska (coll. Behr)

80. **Chippewa**, Edw.

Helena, Edw. (name pre-occupied), Pr. E. Soc. Phil., 2, 80, 1863; id., But., 1, 42, pl. 12, 1868.

Hab.—Fort Simpson; St. Michaels, Alaska; Kotzebue Sound.

81. **Nastes**, Bd., Icones, pl. 8, 1832; id., Sp. Gen., 1, 648, 1836; Herr.-Schaeff., Eur. Schmett., pl. 7, figs. 41, 42, pl. 85, figs. 403, 404, 1843; Mösch., Wien. Ent. Monat., 4, 354, pl. 9, 1860; Edw., But., 2, pl. 1 of *Colias*, 1874.

Hab.—Labr.; Ungava Bay.

82. **Moina**, Str., Br. Bull., 3, 34, 1880.

Hab.—Hudson's Bay.

83. **Behrii**, Edw., Pr. E. Soc. Phil., 6, 1866; id., But., 1, 44, pl. 13, 1868.

Hab.—Yo Semite, Cala. (Alpine)

TERIAS, Swainson.

Group I.

84. **Gundlachia**, Poey, Hist. Nat. de Cuba, 1, 246, pl. 24, 1851.

Hab.—Texas; Ariz.

85. **Proterpia**, Fab., Syst. Ent., 478, 1775; Bd., Sp. Gen., 1, 654, 1836; Morr., 35, 1862.

Hab.—Texas; Ariz.

86. **Nicippe**, Cram., 3, 210, 1872; Say, Am. Ent., 2, pl. 30, 1825; Bd.-Lec., 55, pl. 20, 1833 *; H. Edw., Pr. Cal. Ac. N. Sci., 166, 1873 *; Edw., Can. Ent., 13, 61, 1881 *.
Hab.—Pa. to Gulf Mex.; Miss. Valley; Ariz.; Cala.; occasl. N. Eng.
87. **Mexicana**, Bd., Sp. Gen., 1, 653, pl. 3, 1836; Morr., 36, 1862.
Hab.—Texas; Ariz.; So. Cala.; Kans.; occasl. Neb.; Iowa; Ill.; Grant County and Racine, Wis.; also Point Pelee, Ont. (auct. Saunders)
88. **Damaris**, Feld., Reise Nov. Lep., 198, 1865; Edw., Papilio, 2, 20, 1882.
Hab.—Ariz.

Group II.

89. **Westwoodii**, Bd., Sp. Gen., 1, 666, 1836.
Hab.—Texas (coll. Mead)
90. **Lisa**, Bd.-Lec., 53, pl. 19, 1833; id., Sp. Gen., 1, 661, 1836; Morr., 34, 1862; Fern., But. Me., 32, 1884.
Hab.—Isle of Shoals, Me. (by Thaxter); south to Gulf Mex.; Westn. States; Ariz.; Hamilton, Ont. (by Moffatt)
91. **Delia**, Cram., 3; pl. 273, fig. A, 1782; Bd.-Lec., 49, pl. 18, 1833 *; id., Sp. Gen., 1, 663, 1836; Morr., 34, 1862.
Hab.—Gulf States.
92. **Jucunda**, Bd.-Lec., 52, pl. 19, 1833; id., Sp. Gen., 1, 665, 1836; Morr., 35, 1862.
Hab.—Gulf States.

NYMPHALIDÆ.

HELICONINÆ.

HELICONIA, Latreille.

93. **Charitonia**, Linn., Syst. Nat., 2, 757, 1767; Cram., 2, pl. 191, fig. F, 1779; Bd.-Lec., 140, pl. 41, 1833; Gosse, in Doubl., Gen. Di. Lep., 1, 97, note, 1850 *; Edw., Papilio, 1, 210, 1881 *; id., Can. Ent., 13, 158, 1881 *; id., But., 2, pl. 1, Char., 1882 *.
Hab.—Fla. to S. Car.; W. Ind.; trop. Am.

DANAINÆ.

DANAIS, Latreille.

94. **Archippus**, Fab., Ent. Syst., 3, 49, 1793; Sm.-Abb., pl. 6, 1797 *; Bd.-Lec., 137, pl. 40, 1833 *; Harr., 230, 1862 *; Saund., Can. Ent., 5, 4, 1873 *; Riley, third Mo. Ent. Rep., 143, 1871 *; Edw., Can. Ent., 8, 119, 1876 *; id., l. c., 10, 224, 1878; id., Psyche, 2, 169, 1878 *; Mundt, Can. Ent., 11, 239, 1879 *; Burg., Mem. Bost. Soc. N. Hist., 1880, anat. of, plates; Moff., Can. Ent., 12, 37, 1880; Thaxt., l. c., 12, 38, 1880 *; Fern., But. Me., 34, 1884 *.

Plexippus, Say, Am. Ent., 3, pl. 54, 1828; Scud., Psyche, 1, 81, 1875 *.

Hab.—U. S. generally; Br. Am.; Ont. to N. Scd.

95. **Berenice**, Cram., 3, 205, figs. E, F, 1782; Bd.-Lec., 134, pl. 39, 1833 *.

Gilippus, Sm.-Abb., pl. 7, 1797 *.

Hab.—So. States; Col.; N. Mex.; Ariz.

96. **Strigosa**, Bates, Ent. Mo. Mag., 1, 32, 1864.

Hab.—Texas; Ariz.

DIRCENNA, Doubleday.

97. † **Klugii**, Hüb., Zutr. Ex. Schmett., figs. 801, 802, 1837.

Hab.—Rio Grande, Texas (auct. Lintner).

NYMPHALINÆ.

COLENIS, Doubleday.

98. **Julia**, Fab., Syst. Ent., 509, 1775.

Alcionea, Cram., 3, pl. 215, figs. A, F, G, 1782.

Hab.—So. Fla.; Texas.

99. **Delila**, Fab., Syst. Ent., 510, 1775.

Cillene, Cram., 3, 215, D, E, 1782.

Hab.—Occas. Texas.

AGRAULIS, Boisduval and LeConte.

100. **Vanillæ**, Linn., Mus. Lud. Ulr., 306, 1764; Cram., 3, 212, figs. A, B, 1782; Bd.-Lec., 143, pl. 42, 1833 *; Edw., Can. Ent., 12, 122, 1880 *.

Passifloræ, Fab., Ent. Syst., 3, 60, 1793; Sm.-Abb., pl. 12, 1797 *.

Hab.—So. States; Ariz.; Cala.; occasl. Coalburgh, W. Va. (by Edwards); Cape May, N. J.; Philadelphia, Pa.

ARGYNNIS, Fabricius.

Group I.

101. **Idalia**, Drury, 1, pl. 13, 1775; Bd.-Lec., 147, pl. 43, 1833; Harr., 285, fig. 210, 1862; Edw., Can. Ent., 11, 217, 1879 *; Fern., But. Me., 36, 1884 *.

Hab.—Me. to Neb.; N. J.; Pa.; Arks.

aberr. ASHTAROTH, Fisher, Pr. Ac. N. Sci. Phil., 1858, 179, pl. 2; id., l. c., 1858, 352.

102. **Diana**, Cram., ♂, 2, pl. 98, figs. D, E, 1779; ♂, Say, Am. Ent., 1, pl. 17, 1825; ♀, Edw., Pr. E. Soc. Phil., 3, 431, 1864; id., ♂ ♀, But., 1, 63, pl. 20, 1868; 2, pl. 7 of Argyn. (prepy stages), 1876; id., Can. Ent., 6, 121, 1874 *.

Hab.—W. Va. to Ga.; South. Ohio to Ill.; Ky.; Tenn.; Arks.

103. **Nokomis**, Edw., Pr. Ac. N. Sci. Phil., 1862, 221; id., But., 1, 73, pl. 23, 1868; Mead, Wheeler Rep., 5, 751, pl. 35, 1875.

Hab.—North. Ariz.; So. Utah.

104. **Nitocris**, Edw., Tr. A. E. Soc., 5, 15, 1874; Mead, Rep. Wheeler Exp., 5, 751, 1875.

♀ aberr. *Nokomis*, Str., Ruff. Rep., pl. 1, figs. 3, 4, 1879.

Hab.—So. Ariz. to Nev.

105. **Leto**, Behr., Pr. Cal. Ac. N. Sci., 2, 173, 1862; Edw., But., 1, 85, pl. 29, 1869.

Cybele, Bd., Lep. de la Cala., 60, 1869.

Hab.—Cala.; Oreg.; W. Terr.; Nev.; Mont.

106. **Carpenterii**, Edw., Tr. A. E. Soc., 5, 204, 1876.

Hab.—Ariz.

107. **Cybele**, Fab., Syst. Ent., 516, 1775; Bd.-Lec., 51, pl. 45, ♀, 1833; Edw., But., 1, 67, pl. 21, 1868; id., Can. Ent., 6, 121, 1874 *; Saund., Can. Ent., 4, 121, 1872 *; Fern., But. Me., 38, 1884.

Hab.—Atl. and West. St. to Neb.; Ont.; Queb.; Fort Edmonton, Br Am.

108. **Aphrodite**, Fab, Mant., 2, 62, 1767; Harr., 286, fig. 211, ♀, 1862; Edw., But., 1, 71, pl. 22, 1868; id., Can. Ent., 6, 121, 1874 *; Fern., But. Me., 39, 1884.
Hab.—North., Mid. and West. St. to Tenn.; Neb.; Mont.; Kans.; Ont.; Queb.; N. Sco.; Fort Edmonton, Br. Am.
109. **Alcestis**, Edw., Tr. A. E. Soc., 5, 289, 1876; id., Can. Ent., 13, 69, 1879 *; Worth., Can. Ent., 10, 37, 1878.
Hab.—Mich.; Ill.; Iowa; Mont.; Col.
110. **Nausicaä**, Edw., Tr. A. E. Soc., 5, 104, 1874; Mead, Rep. Wheeler Exp., 5, 752, 1875; Edw., Papilio, 2, 6, 1882.
Hab.—Ariz.
111. **Lais**, Edw., Can. Ent., 15, 209, 1883.
Hab.—Fort Edmonton, Br. Am. (by Geddes)
112. **Atlantis**, Edw., Pr. Ac. N. Sci. Phil., 1862, 54; Pack. Guide, 252, 1869 *; Edw., But., 1, 75, pl. 24, 1868; id., Can. Ent., 9, 35, 1877 *; Fern., But. Me., 40, 1884.
Hab.—N. E.; N. Y.; Iowa; Ont.; Queb.; N. B.; N. F'land; Br. Am.
113. **Electa**, Edw., Field and Forest, 3, 143, 1878.
Hab.—Col.; Los Vegas, N. Mex.; Mont.
114. **Columbia**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877; id., Field and Forest, 3, 102, 1877.
Hab.—Lakes Lahache and Quesnelle, Br. Col.
115. **Hesperis**, Edw., Pr. E. Soc. Phil., 2, 502, 1864; id., But., 1, 79, pl. 26, 1874; Mead, Rep. Wheeler Exp., 5, 754, 1875.
Hab.—Col.; Utah; Mont.
116. **Hippolyta**, Edw., Can. Ent., 11, 81, 1879.
Hab.—Oreg.
117. **Bremnerii**, Edw., Tr. A. E. Soc., 4, 63, 1872; id., But., 2, pl. 4 of Argyn., 1874.
Hab.—Br. Col.; W. Terr.
118. **ZERENE**, Bd., Ann. Soc. Ent. Fr., 2, 10, 303, 1852; Behr, Pr. Cal. Ac. N. Sci., 2, 175, "No. 9," 1862.
Hydaspe, Bd., Lep. de la Cala., 60, 1869.
 var. Edw., But., 1, 91, pl. 32, 1870.
Hab.—Cala.; Nev.

119. **MONTICOLA**, Behr, l. c., 2, 175, "No. 8," 1862; Edw., But., 1, 81, pl. 27, 1868.
var. **PURPURASCENS**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
Hab.—Cala.; Oreg.; Nev.; Mont.; Summit, Br. Am. (by Geddes)
120. **Rhodope**, Edw., Tr. A. E. Soc., 5, 13, 1874; But., 2, pl. 6 of Argyn., 1874.
Hab.—Br. Col.
121. **Behrensii**, Edw., Tr. A. E. Soc., 2, 370, 1869; id., But., 1, 89, pl. 31, 1870.
Hab.—Mendocino, Cal.
122. **Halcyone**, Edw., ♂, But., 1, 83, pl. 28, 1869.
Hab.—Col.; Wyom.
123. **Chitone**, Edw., Can. Ent., 11, 82, 1879.
Hab.—Utah; Ariz.; S. E.; Cala.
124. **Coronis**, Behr, Pr. Cal. Ac. N. Sci., 2, 173, 1862, "No. 2;"
Edw., Pr. E. Soc. Phil., 3, 435, 1864.
♀ *Nevadensis*, Edw., But., 1, pl. 33, 1871.
Juba, Bd., Lep. de la Cala., 60, 1869.
Hab.—So. Cala.; Shasta, Cala.; Utah; W. Terr.; Mont.; Belly River and Crow's Nest, Br. Am. (by Geddes)
125. **Callippe**, Bd., Ann. Soc. Ent. Fr., 2, 10, 302, 1852; Edw., But., 1, 77, pl. 25, 1868.
Hab.—Cala.
126. **Nevadensis**, Edw. ♂ (not ♀), Tr. A. E. Soc., 3, 14, 1870; id., ♂ (not ♂), But., 1, 93, pl. 33, 1871 (the ♀ is *Coronis*).
var. **MEADII**, Edw., Tr. A. E. Soc., 5, 69, 1872; But., 2, pl. 2 of Argyn., 1875.
Hab.—Nev.; Utah; Mont.
127. **Edwardsii**, Reak., Pr. E. Soc. Phil., 6, 137, 1866; Edw., But., 1, 87, pl. 30, 1869.
Hab.—Col.; Mont.; Blackfoot Reserve, Br. Am. (by Geddes)
128. **Liliana**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
aberr. **BARONII**, Edw., Tr. A. E. Soc., 9, 3, 1881.
Hab.—Cala.; Utah.

129. **Rupesttris**, Behr., Pr. Cal. Ac. N. Sci., 2, 175, 1862, "No. 6";
id., l. c., 3, 84, 1863; Edw., But., 2, pl. 7 of Argyn., 1876.
var. **IRENE**, Bd.; *Egleis*, var. *Irene*, Bd., Lep. de la Cala., 59,
1869.
Irene, Edw., Can. Ent., 11, 53, 1879.
Hab.—Cala., Mt. Shasta, Mt. Bradley; Weber Mts., Utah.
130. **Laura**, Edw., Can. Ent., 11, 49, 1879.
Hab.—Cala.; Nev.
131. **Macaria**, Edw., Field and Forest, 3, 86, 1877.
Hab.—Cala.
132. **Inornata**, Edw., Tr. A. E. Soc., 4, 64, 1872; id., But., 2, pl. 5
of Argyn., 1876.
Hab.—Cala.; Nev.
133. **Adiante**, Bd., Lep. de la Cala., 61, 1869; Behr., Pr. Cal. Ac. N.
Sci., 2, 175, 1862, "No. 7," 1862.
Adiaste, Edw., Pr. E. Soc. Phil., 3, 436, 1864.
Hab.—Sta. Clara Mts., Cala.
134. **Artonis**, Edw., Tr. A. E. Soc., 9, 2, 1881.
Hab.—Col.; Nev.
135. **Clio**, Edw., l. c., 5, 106, 1874.
Hab.—Mont.; Br. Am., Crow's Nest; Head of Peace River.
136. **Opis**, Edw., l. c., 5, 105, 1874; id., But., 2, pl. 3 of Argyn.,
1875.
Hab.—Bald Mt., Br. Col.
137. **Bischoffii**, Edw., l. c., 3, 189, 1879; id., But., 2, pl. 3 of Argyn.,
1875.
Hab.—Sitka, Alaska.
138. **Eurynome**, Edw., Tr. A. E. Soc., 4, 66, 1872; id., But., 2, pl.
1 of Argyn., 1875 *; Mead, Rep. Wheeler Exp., 5, 755, 1875.
Astarte, Edw. (not Doubl.), Pr. E. Soc. Phil., 1, 221,
1862.
Hab.—Col.; Mont.; Br. Am.
139. **Montivaga**, Behr., Pr. Cal. Ac. N. Sci., 2, 174, "No. 4," 1862;
id., l. c., 3, 84, 1863.
Arge, Str., Cat., 114, 1878.
Hab.—Sierras, Cala.; Nev.

var. *ERINNA*, Edw., Can. Ent., 15, 33, 1883.

Hab.—W. Terr.; Col.; Mont.; Red Deer River, Br. Am.

140. *Egleis*, Bd., Lep. de la Cala., 59, 1869; Edw., Can. Ent., 11, 53, 1879 *.

Montivaga, Edw. (not Behr), Pr. E. Soc. Phil., 3, 435, 1864.

♀ *Mormonia*, Bd., Lep. de la Cala., 58, 1869.

Hab.—Cala.; Nev.

Group II.

141. *Myrina*, Cram., 2, 189, figs. B, C, 1779; Say, Am. Ent., 3, pl. 46, 1828; Bd.-Lec., 155, pl. 45, 1833; Harr., 286, fig. 112, 1862; Saund., Can. Ent., 1, 55, 1869 *; Seud., Am. Nat., Sept. 1872; Edw., Can. Ent., 8, 161, 1876 *; id., l. c., 9, 34, 1877 *; id., Papilio, 1, 134, 1881; Grub., Jen. Zeitschr. Nat., 17, 479, pl. 8, figs. 34, 35, 1884; Fern., But. Me., 40, 1884 *.

Hab.—N. E. to Mont.; Col.; Ont.; Queb.; N. Sco.; Br. Am.; Sitka, Alaska.

142. *Triclaris*, Hüb., Samml. Ex. Schmett., 2 (1818-1824); Mead, Rep. Wheeler Exp., 5, 757, 1875; Seud., Pr. Bost. Soc. N. Hist., 17, 294, 1875.

Ostianus, Bd., Icon., pl. 19, 1832; Bd.-Lec., 157, 1833; Morr., 48, 1862.

Hab.—Arctic Am.; Labr.; Col.

143. *Helena*, Edw., Tr. A. E. Soc., 3, 268, 1871; Mead, Rep. Wheeler Exp., 5, 757, 1875.

Hab.—Mont.; Col.; N. Mex.; Ariz.

144. *Montinus*, Seud., Pr. Ess. Ins., 3, 166, 1862; id., Bost., Jl. N. Hist., 7, 626, pl. 14, 1863.

Hab.—White Mts., N. H.

145. *Chariclea*, Schneid., Neu. Mag., 5, 588, 1794; Hüb., Eur. Schmett., 1, figs. 769, 770, 1824-1826; Bd.-Lec., 161, 1833; Bd., Sp. Gen., 1, pl. 11, fig. 2, 1836; Morr., 49, 1862; Seud., Pr. Bost. Soc. N. Hist., 17, 297, 1875; McLach., Linn. Soc. Jl., 14, 109, 1878.

Hab.—Arctic Am. to lat. 81° 52'; Br. Am. to Pac.; Greenl.; Labr.

var. *OBSCURATA*, McLachl., l. c., 14, 110, 1878.

Hab.—Grinnell Land.

146. **Butlerii**, Edw., Can. Ent., 15, 32, 1883.
Hab.—N. W. Am.; Grinnell Land; Nova Zembla.
147. **Boisduvallii**, Somm., in Bd. Icon., 1, 98, pl. 20, 1832.
Hab.—Br. Col.; Crow's Nest, Br. Am. (by Geddes); Boreal Am.;
 Labr.
148. **Freya**, Thunb., Diss. Ins. Suec., 2, 34, pl. 5, 1791; Hüb., Eur.,
 Schmett., 1, figs. 55, 56, 1793, figs. 771, 772, 1824–1826; Morr.,
 46, 1862; Scud., l. c., 17, 299, 1875; Mead, Rep. Wheeler Exp.,
 5, 756, 1875.
Hab.—Boreal Am.; Br. Am.; Alaska; Col.
 var. **TARQUINIUS**, Curt., App. Ross Exp., 68, 1835 *.
Hab.—Arctic Am.
149. **Polaris**, Bd., Icon., pl. 20, 1833; id., Sp. Gen., 1, pl. 11, fig.
 1, 1836; Bd.-Lec., 159, 1833; Morr., 48, 1862; Scud., l. c.,
 17, 294, 1875.
Hab.—Labr.; Arctic Am. to lat. 81° 52'; Greenl.
150. **Frigma**, Thunb., Diss. Ins. Suec., 2, 33, 1791; Hüb., Eur.
 Schmett., 1, figs. 49, 50, 1793; Scud., l. c., 17, 306, 1875.
Hab.—Labr.; Arctic Am.; Alaska; Col.
151. **Improba**, Butl., Ent. Mo. Mag., 13, 206, 1877.
Hab.—Arctic Am.
152. **Bellona**, Fab., Syst. Ent., 517, 1775; Bd.-Lec., 164, pl. 45,
 1833; Harr., 287, figs. 113, 114, 1862; Scud., Am. Nat., Sept.
 1872; id., Butterflies, 143, figs. 129, 130, 1881; Edw., Papilio,
 1, 134, et seq., 1881; Fern.; But. Me., 41, 1884 *.
Hab.—North. U. S.; Col.; Br. Am.; Ont.; Queb.
153. **Epithore**, Bd., Lep. de la Cala., 58, 1869; Edw., Pr. E. Soc.
 Phil., 3, 504, 1864.
Hab.—Cala. to Oreg.; Nev.
 var. **KREIMHILD**, Str., Ruff. Rep., p. 1854, 1879.
Hab.—Utah; Ariz.
- EUPTOIETA**, Doubleday.
154. **Claudia**, Cram., 1, pl. 69, figs. E, F, 1779; Edw., Can. Ent., 2,
 163, 1870 *; id., l. c., 12, 231, 1880 *; Mead, Rep. Wheeler
 Exp., 5, 750, 1875 *.
Columbina, Godt. (not Fabr.), Enc. Meth., 9, 260, 1819;
 Bd.-Lec., 153, pl. 44, 1833; Morr., 44, 1862.
Hab.—N. Y. to Gulf Mex.; Miss. Valley; Col.; Ariz.; Cala.;
 occasl. N. H. and Queb. (Can. Ent., 14, 219)

155. **Hegesia**, Cram., 3, pl. 209, figs. E, F, 1872.

Hab.—Oceasl. So. Cal.; Texas.

MELITÆA, Fabricius.

Group I.

156. **Phaeton**, Dru., 1, pl. 21, 1767; Bd.-Lec., 167, pl. 47, 1833; Harr., 288, fig. 115, 1862; Edw., Can. Ent., 1, 59, 2, 36, 1869 *; id., l. c., 6, 159, 1874 *; id., But., 2, pl. 1 of Melit., 1875 *; id., Papilio, 4, 68, 1884 *; Grub., Jen. Zeitschr. Nat., 17, 476, pl. 8, figs. 25-27, 1884 *; Fern., But. Me., 43, 1884 *.

aberr. **SUPERBA**, Str., Cat., p. 125, 1878.

aberr. **PHÆTHUSA**, Hulst., Br. Bull., 3, 77, 1880.

Hab.—U. S. east of Rocky Mts.; Ont.; Queb.; Lake of the Woods.

157. **Cooperi**, Behr, Pr. Cal. Ac. N. Sci., 3, 90, 1863 *.

Perdiccas, Edw., Papilio, 1, 44, 1881.

Hab.—Puget Sound, W. Terr.; Big Horn Mts., Mont.; Vanc. Isld.

158. **Chalcedon**, Doubl.-Hew., Gen. Di. Lep., 1, 180, pl. 23, 1847; Edw., Pr. E. Soc. Phil., 1, 222, 1862; id., But., 1, 97, pl. 34, 1871 *; id., Papilio, 4, 63, 1884 *; H. Edw., Pr. Cal. Ac. N. Sci., 5, 167, 1873 *.

Hab.—Cala.

var. **DWINELLEI**, H. Edw., Papilio, 1, 51, 1881.

Hab.—Mt. Shasta, Cala.

159. **Colo**n, Edw., Papilio, 1, 45, 1881.

Hab.—Columbia River, west W. Terr., and Oreg.

160. **Anicia**, Doubl.-Hew., Gen. Di. Lep., 1, 179, pl. 23, 1848; Edw., Pr. E. Soc. Phil., 1, 223, 1862.

Hab.—Cala.; Nev.; Col.; Mont.

161. **Nubigena**, Behr, Pr. Cal. Ac. N. Sci., 3, 91, 1863; Mead, Rep. Wheeler Exp., 5, 758, 1875 *.

Hab.—Cala.; Nev.; N. Mex.; Col.; Mont.

var. **WHEELERI**, H. Edw., Papilio, 1, 52, 1881.

Hab.—Nev.

162. **Quino**, Behr, Pr. Cal. Ac. N. Sci., 3, 90, 1863.

Hab.—Mendocino, Cala.

208. ———?

Monima, Seud. (not Cramer).*Hyperipte*, Edw. Synop. (not Hüb.).*Hab.*—Florida, occasional; (coll. Edwards).**TIMETES**, Bd.209. **Coresia**, Godt. Enc. Meth. 9, 359.*Zerynthia*, Hüb. Ex. Schmett. 2.*Hab.*—Texas, occasional; (coll. Belfrage).210. **Petreus**, Cram. 1, pl. 87, fig. D. E.*(Eleucha, Edw. Synop.)*.*Hab.*—Florida, occasional; (coll. Chapman).211. **Eleucha**, Doub. Gen. Di. Lep. pl. 33.*Hab.*—Texas, occasional; (coll. Belfrage).212. **Chiron**, F.*Marius*, Cram. 3, pl. 200, fig. D. E.*Hab.*—Texas, occasional; (coll. Belfrage).**CALLICORE**, Doub.213. **Clymena**, Cram. 1, pl. 24, fig. E. F.*Hab.*—Florida, occasional; (coll. Edwards).**LIMENITIS**, F.214. **Ursula**, F.—Sm.-Abb. pl. 10, *. Bd.-Lec. 199, pl. 53, *.

Morr. 64.

Astyanax, F.*Ephestion*, Stoll. Harr. 283, *.*Hab.*—Atlantic States; Mississippi Valley; Kansas; Arizona; Canada.215. **Proserpina**, Edw. Pr. E. Soc. Ph. 5, 148; id. But. N. A. 1, 125, pl. 41.*Hab.*—New York, Catskill Mountains; New Hampshire, White Mountains; Canada; Nova Scotia.216. **Arthemis**, Drury.—Say, 2, pl. 23. Bd.-Lec. 202, pl. 54. Morr.

65. Harr. 283, pl. 1, fig. 7. Lintn. Pr. E. Soc. Ph. 3, 62,

*. Mead, Can. Ent. 7, 162, *.

Lamina, F.*Hab.*—Northern United States; British America to Pacific; Canada; Nova Scotia.

175. **Dymas**, Edw., Can. Ent., 9, 190, 1877.
Larunda, Str., l. c., Pt. 14, 1878.
Hab.—S. W. Texas.
176. **Perse**, Edw., Papilio, 2, 136, 1882.
Hab.—Ariz.
177. **Chara**, Edw., Can. Ent., 15, 209, 1883.
Hab.—So. Ariz.
178. **Leanira**, Bd., Lep. de la Cala., 27, 1869; Mead, Rep. Wheeler Exp., 5, 759, pl. 37, 1875.
var. **OBSOLETA**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
Hab.—Cala.; Ariz.; Nev.; Mont.; Br. Am., Garnett Rancho (by Geddes).
179. † **Alma**, Str., Lep., pl. 15, ♂, 1878; id., Ruff, Rep., p. 1855, 1879.
Hab.—So. Utah; Ariz.
180. **Fulvia**, Edw., Can. Ent., 11, 117, 1879.
Hab.—West. Texas; Col.
181. **Thekla**, Edw., Tr. A. E. Soc., 3, 191, 1870.
Hab.—So. Cala.; Ariz.
182. **Bollii**, Edw., Field and Forest, 3, 101, 1877.
Hab.—S. W. Texas; Ariz.
183. **Minuta**, Edw., Pr. Ac. N. Sci. Phil., 1861, 161; Morr., 325, 1862; Mead, Rep. Wheeler Exp., 5, pl. 36, 1875.
Hab.—Col.; Ariz.; N. Mex.
184. **Arachne**, Edw., Tr. A. E. Soc., 2, 372, 1869; id., l. c., 9, 8, 1881.
Hab.—Col.; Ariz.; West. Texas.
185. **Nympha**, Edw., Papilio, 4, 53, 1884.
Hab.—So. Ariz.

PHYCIODES, Doubleday.

Group I.

186. **Nycteis**, Doubl.-Hew., Gen. Di. Lep., 181, pl. 23, 1847; Lintn., Ent. Cont., 1, 26, 1872 *; Riley, Pr. Am. A. A. Sci., 1874, 108 *; Edw., Can. Ent., 5, 224, 1873 *; id., l. c., 11, 101,

1879 *; Grub., Jen. Zeitschr. Nat., 17, 478, pl. 8, figs. 30, 32,
1884 *; Fern., But. Me., 46, 1884 *.

Oenone, Seud., Pr. Ess. Ins., 3, 166, 1862.

✕ *Harrisii*, Edw., Can. Ent., 2, 163, 1870 *; Saund., l. c.,
4, 161, 1872 *.

Hab.—Me. to N. C. and west; Miss. Valley; Ont.; Queb.

var. *DRUSIUS*, Edw., Papilio, 4, 57, 1884.

Oenone, Mead, Rep. Wheeler Exp., 5, 762, 1875.

Hab.—Col.; Ariz.

187. *Carlota*, Reak., Pr. E. Soc. Phil., 6, 141, 1867.

Nycteis, Edw. (not Doubl.), Pr. Ac. N. Sci. Phil., 1861,
161.

Hab.—Southn. and Westn. St.; Rocky Mts.; Mont. to Ariz.
(occasl. in W. Va.)

Group II.

188. *Vesta*, Edw., Tr. A. E. Soc., 2, 371, 1869; id., Can. Ent., 11,
129, 1879 *.

1. winter form, But., 2, pl. 2 of Phyc., 1878.

2. summer form, l. c., pl. cit.

Hab.—Texas.

189. *Phaon*, Edw., Pr. E. Soc. Phil., 2, 505, 1864.

1. winter form, But., 2, pl. 2 of Phyc., 1878.

2. summer form, l. c., pl. cit.

Hab.—Gulf St.; Texas; occasl. Kans.

190. *Tharos*, Dru.

1. winter form *MARCIA*, Edw., Tr. A. E. Soc., 2, 207, 1868;
id., Can. Ent., 9, 1, 1877 *; id., But., 2, pl. 1 of Phyc.,
1878 *; Grub., Jen. Zeitschr. Nat., 17, 477, pl. 8, figs.
28, 29, 1884 *; Fern., But. Me., 47, 1884 *.

2. summer form *MORPHEUS*, Fab., Syst. Ent., 550, 1775;
Edw., But., 2, pl. 2 of Phyc., 1878 *.

Tharos, Dru., 1, pl. 21, ♀, 1767; Bd.-Lec., p. 170, pl.
47, ♂ (not ♀), 1833; Mead, Can. Ent., 7, 166, 1875
*.

Coccyta, Cram., 2, pl. 101, figs. A, B, ♂, 1779.

Pharos, Harr., 289, 1862.

aberr. *PACKARDII*, Saund., in Pack. Guide, 256, 1869; Edw.,
But., 2, pl. 2 of Phyc., figs. 11, 12.

(For experiments upon the effect of cold applied to chrysalids of *Tharos*, see Edw., Can. Ent., 9, pp. 4, 204, 1877.)

Hab.—U. S. excluding Pac. St.; Br. Am. to Pac.; Ont.; Queb.; N. Seo.; Antic.; So. Labr.

191. **Batesii**, Reak., Pr. E. Soc. Phil., 5, 226, 1865.

Tharos, Bd.-Lee., 171, pl. 47, fig. 5, ♀, 1833.

Hab.—W. Va.; Md.; N. Y. to Ohio.

192. **Pratensis**, Behr, Pr. Cal. Ac. N. Sci., 3, 86, 1863.

♀, *Cumpestris*, Behr, l. c., 3, 86, 1863.

Pulchella, Bd., Ann. Soc. Ent. Fr., 2, 10, 306, 1852.

Hab.—Cala.; Oreg.; Ariz.

193. **Orseis**, Edw., Tr. A. E. Soc., 3, 206, 1871.

Hab.—Cala.; W. Terr.; Oreg.

(perhaps winter form of *Pratensis*).

194. **Camillus**, Edw., Tr. A. E. Soc., 3, 268, 1871.

♀, *Emissa*, Edw., l. c., 3, 269, 1871.

Hab.—Col.; Mont.; Kans.

var. **PALLIDA**, Edw., Pr. E. Soc. Phil., 2, 505, 1864.

var. **MATA**, Reak, Pr. E. Soc. Phil., 6, 142, 1866; Str., Lep., pl. 8, fig. 11, 1874.

Hab.—Col.; Mont.; Texas; Kans.

195. **Mylitta**, Edw., Pr. Ac. N. Sci. Phil., 1861, 160; Morr., 324, 1862; H. Edw., Pr. Cal. Ac. N. Sci., 5, 167, 1873 *; Mead, Rep. Wheeler Exp., 5, 764, 1875 *.

Collina, Behr, Pr. Cal. Ac. N. Sci., 3, 86, 1863.

Epula, Bd., Lep. de la Cala., 54, 1869.

Hab.—Cala.; W. Terr.; Ariz.; Col.; Utah.

196. **Montana**, Behr, Pr. Cal. Ac. N. Sci., 3, 85, 1863.

Orsa, Bd., Lep. de la Cala., 55, 1869.

Hab.—Cala.; Lake Tahoe, Nev.

197. **Picta**, Edw., ♂, Pr. E. Soc. Phil., 4, 201, 1865; id., ♀, *Papilio*, 2, 21, 1882; Str., Lep., pl. 8, fig. 10, 1874.

♀, *Cunace*, Edw., Tr. A. E. Soc., 3, 206, 1871.

Hab.—Col.; N. Mex.; Ariz.; Neb.

ERENIA, Doubleday.

198. **Frisia**, Poey, Cent. Lep. Cuba, 9, pl. 2, 1832.
Gygis, Hew., Ex. But., 3, pl. 6, Eres., figs. 45, 46, 1864.
Hab.—Key West, Fla.
199. **Texana**, Edw., Pr. E. Soc. Phil., 2, 81, 1863; id., Can. Ent., 11, 127, 1879 *.
Cincta, Edw., l. c., 2, 502, 1864.
Smerdis, Hew., Ex. But., 3, pl. 5, Eres., figs. 33, 34, 1864.
Hab.—Texas; Neb.
200. **Punctata**, Edw., Tr. A. E. Soc., 3, 191, 1871.
Hab.—Ariz.; N. Mex.

SYNCHLOE, Boisduval.

201. **Janais**, Dru., 3, pl. 17, figs. 5, 6, 1782.
Hab.—Washita Valley, Texas.
202. **Mediatrix**, Feld., Reise Nov. Lep., 3, 395, 1897.
Saundersii, Edw., Syn. (not Doubl.)
Hab.—Texas.
203. **Adjutrix**, Scud., Buff. Bull., 2, 269, 1875.
Lacinia, Edw., Syn. (not Hüb.)
Hab.—Texas.
204. **Erodyle**, Bates, Ent. Mo. Mag., 1, 84, 1864.
Hab.—Texas.
205. **Crocale**, Edw., Tr. A. E. Soc., 5, 17, 1874; Mead, Rep. Wheeler Exp., 5, 765, pl. 37, 1875.
Hab.—Ariz.

CYSTINEURA, Doubleday.

206. **Amymone**, Mén., Cat. Mus. Petr., 123, pl. 9, 1857.
Dorcas, Edw., Syn. (not Fab.)
Hab.—Texas.

GRAPTA, Kirby.

207. **Interrogationis**, Fab.
 1. dimorphic form **FARRICIL**, Edw., Tr. A. E. Soc., 3, 5, 1870;
 id., But., 1, 115, pl. 39, 1872 *; id., Can. Ent., 14, 189
 1882 *.
Interrogationis, Harr., fig. 124, ♀, 1862.

X

2. dimorphic form *UMBROSA*, Lintn., Tr. A. E. Soc., 2, 313, 1869; id., l. c., 197, 1870; Edw., But., 1, 111, pl. 38, 1872.
Interrogationis, Fab., ♀, Supplt., 424, 1798; Harr., 298 (text, not plate), 1862; Fern., But. Me., 49, 1884 *.
C. Aureum, Cram., 1, pl. 19, figs. E, F, 1779; Sm.-Abb., pl. 11, 1797; Bd.-Lec., ♂, pl. 51, 1833.
 (For experiments upon the effect of cold applied to chrysalids of *Interrogationis*, see Edw., Psyche, 3, 15, 1880.)
Hab.—U. S., except Pac. St.; Ariz.; Ont.; Queb.; N. Sco.

208. *Comma*, Harr.

1. winter form *HARRISII*, Edw., Can. Ent., 5, 184, 1873.
Comma, Harr., 300, pl. 4, fig. 1, 1862; Lintn., Pr. E. Soc. Phil., 3, 55, 1864 *; Edw., But., 1, 101, pl. 36, 1871 *; id., Can. Ent., 14, 189, 1882 *; Fern., But. Me., 5, 1884 *.
 2. summer form *DRYAS*, Edw., Tr. A. E. Soc., 3, 17, 1870; id., But., 1, 109, pl. 37, 1871 *.
Hab.—East., Mid., N. W. St.; N. C.; Tenn.; Kans. to Texas; Ont.; Queb.; N. Sco.

209. *Satyris*, Edw.

1. dimorphic form *SATYRUS*, Edw., Tr. A. E. Soc., 2, 374, 1869; id., But., 1, 121, pl. 40, 1872; H. Edw., Pr. Cal. Ac. N. Sci., 5, 168, 1873 *; Pears., Can. Ent., 7, 216, 1875 *; Mead, Rep. Wheeler Exp., 5, 168, 1875.
 2. dimorphic form *MARSYAS*, Edw., Tr. A. E. Soc., 3, 16, 1870; id., But., 2, pl. 3 of *Grapta*, 1879.
Hab.—Oreg.; Cala.; Mont.; Col.; N. Mex.; Br. Am.; Ont.; Queb.

210. *Hylas*, Edw., Tr. A. E. Soc., 4, 68, 1872; id., But., 2, pl. 2 of *Grapta*, 1875; Mead, Rep. Wheeler Exp., 5, 768, 1875.
Hab.—Col.211. *Rusticus*, Edw., Tr. A. E. Soc., 5, 107, 1874; id., But., 2, pl. 3 of *Grapta*, 1879.
Hab.—Cala.; Vanc. Isid.212. *Faunus*, Edw., Pr. Ac. N. Sci. Phil., 1862, 222; id., But., 1, 99, pl. 35, 1870; Caulf., Can. Ent., 7, 49, 1875 *; Fern., But. Me., 52, 1884 *.

- Hab.*—Mts. of N. E. and N. Y.; Mich.; Neb.; W. Terr.; Br. Am.; Atl. to Pac.; occasl. W. Va. to Ga.
213. **Silvius**, Edw., Tr. A. E. Soc., 5, 108, 1874.
Hab.—Cala.
214. **Zephyrus**, Edw., l. c., 3, 16, 1870; id., But., 1, 123, pl. 40, 1872; id., l. c., 2, pl. 3 of Grapta, 1879 *; H. Edw., Pr. Cal. Ac. N. Sci., 5, 169, 1873 *; Mead, Rep. Wheeler Exp., 5, 769, 1875.
Hab.—Mont.; Nev. to N. Mex.; Ariz.; Utah; Cala.; Oreg.
215. **Gracilis**, Gr.-Rob., Ann. N. Y. Lyc. N. Hist., 8, 432, 1867; Str., Lep., pl. 8, fig. 14, 1874.
Hab.—White Mts., N. H.; Queb.; Br. Am.; Alaska.
216. **Silenus**, Edw.
 1. dimorphic form **SILENUS**, Edw., Tr. A. E. Soc., 3, 15, 1870; id., But., 2, pl. 1 of Grapta, 1874.
 2. dimorphic form **OREAS**, Edw., Tr. A. E. Soc., 2, 373, 1869; id., l. c., 5, 109, 1874.
Hab.—Cala.; W. Terr.; Vanc. Isld.; Mont.
217. **Progne**, Cram., 1, pl. 5, figs. E, F, 1775; Bd.-Lec., 188, pl. 50, 1833; Harr., 301, 1862; Lintn., Pr. E. Soc. Phil., 3, 58, 1864 *; Edw., Can. Ent., 11, 9, 1879 *; Fern., But. Me., 53, 1884 *.
C. Argenteum, Kirby, Faun. Bor. Am. 4, 292, pl. 3, figs. 6, 7, 1837.
Hab.—North. and West. St.; Br. Am. to N. Sco.; Antic.
218. **J. Album**, Bd.-Lec., 185, pl. 50, 1833; Harr., 298, 1862; Lintn., Pr. E. Soc. Phil., 3, 58, 1864 *; Fern., But. Me., 54, 1884 *.
Hab.—North. St. to Wis.; Br. Am., Pac. to Nov. Sco.; So. Labr.
- VANESSA**, Fabricius.
219. **Antiopa**, Linn., Syst. Nat., 1, 2, 776, 1767; Bd.-Lec., 173, 1833; Harr., 296, figs. 121, 122, 1862 *; Lintn., Pr. E. Soc. Phil., 3, 59, 1864; Saund., Can. Ent., 1, 75, 1869 *; Fern., But. Me., 55, 1884 *.
 var. — Bunker, Can. Ent., 8, 240, 1876.
 aberr. **LINTNERII**, Fitch, third Rep. N. Y. St. Ag. Soc., 485, 1856.
Hab.—North. Am. generally.

220. **Californica**, Bd., Ann. Soc. Ent. Fr., 2, 10, 306, 1852; Morr., 58, 1862; Behr, Pr. Cal. Ac. N. Sci., 3, 123, 1864; H. Edw., l. c., 5, 171, 1875 *.

Hab.—Cala.; Oreg.; Nev.; Col.

221. **Milbertii**, Godt., Enc. Meth., 9, 307, 1819; Bd.-Lec., 187, pl. 50, 1833; Harr., 302, fig. 125, 1862; Lintn., Pr. E. Soc. Phil., 3, 61, 1864 *; Saund., Can. Ent., 1, 76, 1869 *; H. Edw., Pr. Cal. Ac. N. Sci., 5, 170, 1873 *; Fern., But. Me., 56, 1884 *.

Furcillata, Say, Am. Ent., 2, pl. 27, 1825.

Hab.—North. St. to Mont.; Col.; Ariz.; Pac. St.; Br. Am. to N. Sco.; N. F'land.

PYRAMIS, Doubleday.

222. **Atalanta**, Linn., Syst. Nat., 1, 2, 779, 1767; Esper, Eur. Schmett., 1, pl. 14, 1777; Harr., 294, fig. 120, 1862 *; Birch., Ent. Mo. Mag., 13, 209, 1878 *; Edw., Can. Ent., 14, 229, 1882 *; Fern., But. Me., 57, 1884 *.

Hybrid bet. *Atalanta* and *Carye*, H. E., Pr. Cal. Ac. N. Sci., 1876.

Hab.—N. Am. generally.

223. **Huntera**, Fab., Syst. Ent., 499, 1775; Sm.-Abb., pl. 9, 1797 *; Bd.-Lec., 180, pl. 48, 1833 *; Harr., 292, fig. 119, 1862 *; Lintn., Pr. E. Soc. Phil., 3, 63, 1864 *; Saund., Can. Ent., 1, 105, 1860 *; Fern., But. Me., 58, 1884 *.

Hab.—N. Am. generally.

224. **Cardui**, Linn., Syst. Nat., 1, 2, 774, 1767; Esper, Eur. Schmett., 1, pl. 10, 1777; Bd.-Lec., 178, 1833; Saund., Can. Ent., 1, 93, 1869 *; Scud., Am. Nat., 10, 392, 602, 1876 *; Fern., But. Me., 59, 1884 *.

var. *ATE*, Str., Cat., 137, 1878.

Hab.—N. Am. generally.

225. **Carye**, Hüb., Samml. Ex. Schmett., 1, 1806-1816; Behr, Pr. Cal. Ac. N. Sci., 3, 125, 1864 *; H. Edw., l. c., 5, 329, 1874 *.

Hybrid bet. *Carye* and *Atalanta*, H. Edw., Pr. Cal. Ac. N. Sci., 1876.

Hab.—Cala. to Chili.; Ariz.; Nev.

JUNONIA, Doubleday.

226. *Cœnia*, Hüb., Samml. Ex. Schmett., 2, 1816-1824; Bd.-Lec., 182, pl. 49, 1832 *; Morr., 61, 1862; Sprague, Can. Ent., 12, 100, 1880; Fern., But. Me., 60, 1884 *.

Lavinia, Hagr. (not Cram.), 293, 1862.

var. *ORYTHIA*, Sm.-Abb., pl. 8, 1797 *.

Hab.—Mid. and South. St. to Pac.; occasl. Mass.; Me.; Ont.

227. *Genoveva*, Cram., 4, pl. 290, figs. E, F, 1782.

Hab.—Ariz. southward.

ANARTIA, Doubleday.

228. *Jatrophae*, Linn., Mus. Lud. Ulr., 289, 1764; Cram., 3, pl. 202, figs. E, F, 1782; Morr., 62, 1862.

Hab.—Texas; Fla.

EUREMA, Boisduval.

229. *Lethe*, Fab., Ent. Syst., 3, 80, 1793; Don. Ins. Ind., pl. 23, fig. 1, 1800.

Hab.—Texas, occasl.

EUNICA, Felder.

230. *Monima*, Cram., 4, 387, figs. F, G, 1782.

Hyperipte, Edw., Syn. (not Hüb.)

Hab.—Texas; Fla.

TIMETES, Boisduval.

231. *Coresia*, Godt., Enc. Meth., 9, 359, 1823; Edw., Pr. Ent. Soc. Phil., 1, 224, 1862.

Hab.—Texas, occasl.

232. *Petreus*, Cram., 1, 87, figs. D, E, 1779.

Eleucha, Edw., Syn. (not Hüb.)

Hab.—Indian River, Fla. (by Wittfeld)

233. *Eleucha*, Doubl.-Hew., Gen. Di. Lep., pl. 23, fig. 3, 1847.

Hab.—Texas, occasl.

234. *Chiron*, Fab., Syst. Ent., 452, 1775.

Marius, Cram., 3, pl. 200, figs. D, E, 1780.

Hab.—Texas, occasl.

DIADEMA, Boisduval.

235. *Misippus*, Linn., Mus., Ulr., 264, 1764; id., Syst. Nat., 1, 2, 767, 1767.

♂ *Bolina*, Dru. (not Linn.) 1, pl. 14, 1773; Edw., Papilio, 1, 30, 1881.

Hab.—Indian River, Fla., occasl. (by Wittfeld.)

LIMENITIS, Fabricius.

236. *Ursula*, Fab., Ent. Syst., 3, 82, 1793; Sm.-Abb., pl. 10, 1797 *; Bd.-Lec., 199, pl. 53, 1833 *; Edw., Can. Ent., 13, 242, 1881 *.

Astyanax, Fab., Syst. Ent., 447, 1775.

Ephestion, Stoll., Suppl. Cram., pl. 25, 1790; Harr., 283, 1862 *.

Hab.—Atl. St.; Miss. Valley; Kans.; Ont.

var. *ARIZONENSIS*, Edw., Papilio, 2, 22, 1882.

Hab.—Ariz.

237. *Arthemis*, Dru.

1. dimorphic form *LAMINA*, Fab., Ent. Syst., 3, 118, 1793; Edw., But., 2, pl. 1 of Limen., 1879.

Arthemis, Dru., 2, 10, 1773; Say, 2, 23, 1825; Bd.-Lec., 202, pl. 54, 1833; Harr., 283, pl. 1, 1862; Sprague, Can. Ent., 12, 100, 1880; Fern., But. Me., 60, 1884 *.

aberr. C, Edw., Papilio, 2, 47, 1882.

2. dimorphic form *PROSERPINA*, Edw., Pr. E. Soc. Phil., 5, 148, 1865; id., Tr. A. E. Soc., 1, 285, pl. 4, 1867; id., Can. Ent., 5, 232, 1873, 9, 114, 1877 *; l. c., 13, 237, 1880; id., But., 1, 127, pl. 41, 1868; l. c., 2, pl. 1 of Limen., 1879 *.

Hab.—North. U. S.; Br. Am. to Fort Simpson; Br. Col.; Ont.; Queb.; N. Sco.

* It is true, the name *DIADEMA* is pre-occupied (in Crustacea), and by Rule 10, Zool. Nom., should be changed; but the only name as yet suggested is *Hypolimnas*, used by Kirby, Cat., and called *Hypolimnas*, Hübner. That will not do at all. The name was one of Hübner's coitus names, and a coitus is not a genus. It is used by Hübner for a group of which "the fore wings are white spotted, the hind wings pale banded," and this does not apply to *Misippus*; and finally Kirby has not "clearly defined" it, as Rule 12 says must be done to make a genus name admissible. Had he defined it, it would have been *Hypolimnas* Kirby, not Hübner. So I retain *Diadema*.

238. **Weidemeyerii**, Edw., Pr. Ac. N. Sci. Phil., 1861, 162; id., But., 1, 129, pl. 42, 1869; Morr., 527, 1862; Mead, Rep. Wheeler Exp., 5, 770, pl. 38, 1875.
Hab.—Rocky Mts., Mont. to N. Mex.; Ariz.; Utah; Fort Niobrara, Neb.
 aberr. **SINE-FASCIA**, Edw., Papilio, 2, 22, 1882.
Hab.—Ariz.
239. **Disippus**, Godt., Enc. Meth., 9, 393, 1823; Bd.-Lec., 204, pl. 55, 1833 *; Harr., 281, fig. 109, 1862; Lintn., Pr. E. Soc. Phil., 3, 63, 1864 *; Riley, third Mo. Ent. Rep., 153, 1871 *; id., Can. Ent., 3, 52, 1871 *; Edw., Can. Ent., 11, 224, 1879 *; Fern., But. Me., 63, 1884 *.
 aberr. Edw. (from effect of cold), Psyche, 3, 174, 1881.
Misippus, Pack. (not Linn.), Guide, 261, fig. 189, 1869.
Hab.—U. S. generally; Ont. to N. Sco.; Br. Am. to lat. 52°.
 var. **FLORIDENSIS**, Str., Cat., 143, 1878 (see Str., Can. Ent., 13, 29, 1881; Mead, l. c., 13, 79, 1881; Edw., Papilio, 4, 62, 1884).
Hab.—South. St.; Ill.
 aberr. — Mead, ♀, Can. Ent., 4, 217, 1872.
PSEUDODORIPPUS, Str., Cat., 143, 1878.
Hab.—Catskill Mts., N. Y.
240. **Eros**, Edw., Can. Ent., 12, 246, 1880 *; id., But., 2, pl. 2 of Limen., 1883 *.
Hab.—Fla.; Ga.
 var. **OBSOLETA**, Edw., 2, 22, 1882.
Hab.—Ariz.
241. **Hulstii**, Edw., Papilio, 2, 46, 1882.
Hab.—Utah.
242. **Lorquini**, Bd., Ann. Ent. Soc. Fr., 2, 10, 301, 1852; Morr., 66, 1862; Edw., But., 1, 131, pl. 43, 1870; Mead, Rep. Wheeler Exp., 5, pl. 38, 1875; H. Edw., Pr. Cal. Ac. N. Sci., 5, 330, 1874.
Hab.—Cala. to W. Terr.; Ariz.; Nev.; Vanc. Isld.; Br. Am., Crow's Nest (by Geddes).

HETEROCHROA, Boisduval.

243. **Californica**, Butl., Pr. Zool. Soc. Lond., 485, 1865; Mead, Rep. Wheeler Exp., 5, 770, pl. 38, 1875; H. Edw., Pr. Cal. Ac. N. Sci., 5, 171, 1873 *.

Eulalia, Doubl.-Hew., Gen. Di. Lep., pl. 36, fig. 1, 1850;

Edw., Pr. Ac. N. Sci. Phil., 225, 1862; Behr, Pr. Cal. Ac. N. Sci., 3, 127, 1864.

Bredowii, Edw. (not Hüb.), But., 1, 133, pl. 44, 1870.

Hab.—Cal.; Ariz.; Nev.

AFATURA, Fabricius.

244. **Celtis**, Bd. Lec., 210, pl. 57, 1833; Edw., But., 2, pl. 1 of Apat., 1875 *.

Lycaon, Riley (not Fab.), sixth Mo. Ent. Rep., 137, 1874 *.

Hab.—Va. to Gulf Mex.; Miss. Valley.

245. **Antonia**, Edw., Field and Forest, 3, 103, 1877.

Hab.—Texas.

var. **MONTIS**, Edw., Papilio, 2, 7, 1882.

Hab.—Ariz.; Col.

246. **Leilia**, Edw., ♂, Tr. A. E. Soc., 5, 103, 1874; id., ♂, But., 2, pl. 1 of Apat., 1875; id., ♀, Papilio, 2, 23, 1882.

Hab.—Ariz.

247. **Alicia**, Edw., But., 1, 135, pl. 45, 1868; id., Psyche, 3, 123, 1880 *.

Hab.—Gulf St., Fla. to Texas.

248. **Clyton**, Bd.-Lec., 208, pl. 56, 1833.

Herse, Riley (not Fab.), sixth Mo. Ent. Rep., 140, 1874 *.

1. dimorphic form **PROSERPINA**, Scud., Tr. Ac. N. Sci. Chic., 1, 332, 1869; Edw., But., 2, pl. 2 of Apat., 1876.

2. dimorphic form **OCELLATA**, Edw., l. c., pl. cit., 1876.

Hab.—N. Y. to Gulf Mex.; Miss. Valley; Kans.

249. **Flora**, Edw., But., 2 (in *Clyton*), 1876; id., Can. Ent., 13, 81, 1881 *.

Hab.—Fla.; Texas.

250. **Cocles**, Lintn. MSS.

Hab.—Rio Grande, Texas.

PAPHIA, Westwood.

- 251.
- Troglodyta**
- , Fab., Syst. Ent., 502, 1775.

Astinax, Cram., 4, 337, figs. A, B, 1782.*Glycerium*, Edw. (not Doubl.), But., 1, 137, pl. 46, 1871

* ; Riley, second Mo. Ent. Rep., 125, 1870 *.

Andria, Scud., Buff. Bull., 2, 248, 1875.*Hab.*—West. St., from Ill. to Texas; Neb.

- 252.
- Morrisonii**
- , Edw., Papilio, 3, 8, 1883.

Hab.—Mt. Graham, Ariz.; Mex.**SATYRINÆ****DEBIS**, Westwood.

- 253.
- Portlandia**
- , Fab., Sp. Ins., 2, 82, 1781; Bd.-Lec., 226, pl. 58, 1833; Edw., Can. Ent., 14, 84, 1882 *; Fern., But. Me., 70, 1884 *.

Andromacha, Hüb., Samml. Ex. Schmett., 1, 1806–1816;

Morr., 78, 1862.

Hab.—Me. to Rocky Mts. and to Gulf Mex.; Br. Am. to Lat. 50°.**NEONYMPHA**, Westwood.

- 254.
- Canthus**
- , Bd.-Lec., pl. 60, 1833; Morr., 74, 1862; Edw., Can. Ent., 15, 64, 1883 *.

Boisduvalli, Harr., 305, fig. 129, 1862; Fern., But. Me., 68, 1884 *.*Hab.*—North. States; Ont.; Queb.

- 255.
- Gemma**
- , Hüb., Zutr., Ex. Schmett., 1, figs. 7, 8, 1818; Bd.-Lec., pl. 62, 1833 *; Morr., 73, 1862; Edw., Can. Ent., 11, 31, 1879 *.

Hab.—W. Va. to Gulf Mex.

- 256.
- Henshawii**
- , Edw., Tr. A. E. Soc., 5, 205, 1876; id., l. c., 9, 7, 1881.

Hab.—Ariz.; So. Cal.; N. Mex.

- 257.
- Areolatus**
- , Sm.-Abb., 1, pl. 13, 1797 *; Bd.-Lec., pl. 63, 1833 *; Morr., 74, 1862; Edw., Can. Ent., 14, 163, 1882 *.

Hab.—Gulf St.; occasl. N. J.

258. **Eurytris**, Fab., Ent. Syst., 3, 157, 1793; Bd.-Lec., pl. 61, 1833
* ; Morr., 73, 1862; Harr., 306, fig. 129, 1862; Saund., Can.
Ent., 2, 139, 1870 * ; Edw., Can. Ent., 10, 125, 1878 * ;
Fern., But. Me., 66, 1884 * .
Hab.—Atl. St.; Miss. Valley; Neb.; Ont.; Queb.
259. **Sosybius**, Fab., Ent. Syst., 3, 219, 1793; Bd.-Lec., pl. 63, 1833
* ; Morr., 74, 1862; Edw., Can. Ent., 9, 229, 1877 * .
Hab.—Mid. and South. St.; Miss. Valley.
260. **Rubricata**, Edw., Tr. A. E. Soc., 3, 212, 1871.
Hab.—Texas; Ariz.

CENONYMPHA, Westwood.

261. **California**, West.-Hew., Gen. Di. Lep., 398, pl. 67, 1851.
Californius, Bd., Ann. Soc. Ent. Fr., 2, 10, 309, 1852.
var. **CERES**, Butl., Ent. Mo. Mag., 3, 78, 1866.
var. **GALACTINUS**, Bd., l. c., 2, 10, 309, 1852.
var. **ERYNGIL**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877.
var. **PULLA**, H. Edw., Papilio, 1, p. 51, 1881.
Hab.—Cala.; Mont.
262. **Elko**, Edw., Can. Ent., 13, 57, 1880.
Hab.—Elko, Nev.; Spokane Falls, W. Terr.
263. **Inornata**, Edw., Pr. Ac. N. Sci. Phil., 1861, 163; Morr., 328,
1862.
Hab.—Mont.; Br. Am.; N. F'land.
264. **Ochracea**, Edw., l. c., 1861, 163; Morr., 328, 1862.
Hab.—Mont. to Ariz.; Kans.; Br. Am.
265. **Ampelos**, Edw., Tr. A. E. Soc., 3, 213, 1871.
Hab.—Oreg.; W. Terr.; Nev.; Mont.
266. **Kodiak**, Edw., l. c., 2, 375, 1869.
Hab.—Kodiak, Alaska.
267. **Brenda**, Edw., l. c., 2, 375, 1869.
Hab.—Los Angeles, Cala.
268. **Pamphiloides**, Reak., Pr. E. Soc., Phil., 6, 146, 1866.
Hab.—Cala.; Br. Am.

EREBIA, Dalman.

269. **Fasciata**, Butl., Cat. Satyr., Br. Mus., 92, pl. 2, fig. 8, 1868.
Hab.—Alaska; Boreal Am.
270. **Discoidalis**, Kirby, Faun. Bor. Am., 4, 298, pl. 3, figs. 2, 3, 1837; Morr., 75, 1862.
Hab.—Boreal Am.
271. † **Vesagus**, Doubl.-Hew., Gen. Di. Lep., 380, pl. 64, 1851.
Hab.—Br. Am. (loc. unknown)
272. **Rossii**, Curt., App. Ross. Exp., 67, pl. A, fig. 7, 1835.
Hab.—Boreal Am.
273. **Disa**, Thunb.
 var. **MANCINUS**, Doubl.-Hew., Gen. Di. Lep., 380, pl. 54, 1851.
Hab.—Alaska; Rocky Mts., Br. Am.
274. **Haydenii**, Edw., Rep. Hayden Exp., 1872, 467; id., Tr. A. E. Soc., 5, 19, 1874.
Hab.—Mont.
275. **Tyndarus**, Esp.
 var. **Callias**, Edw., Tr. A. E. Soc., 3, 274, 1871; Mead, Rep. Wheeler Exp., 5, 775, 1875.
Hab.—Col.; N. Mex.
276. **Epipsodea**, Butl., Cat. Satyr. Br. Mus., 80, pl. 2, 1868.
Rhodja, Edw., Tr. A. E. Soc., 3, 273, 1871.
Hab.—Col.; N. Mex.; Mont.; W. Terr.; Br. Am.; St. Michaels, Alaska.
277. † **Sofia**, Str., Br. Bull., 3, 35, 1880.
Hab.—Fort Churchill, Br. Am.
278. † **Magdalena**, Str., l. c., 3, 35, 1880.
Hab.—Col.

GEIROCHEILUS, Butler.

279. **Tritonia**, Edw., Tr. A. E. Soc., 5, 18, 1874.
Hab.—So. Ariz.

HIPPARCHIA, Fabricius.

280. **Ridingsii**, Edw., Pr. E. Soc. Phil., 4, 201, 1865; Str., Lep., pl. 4, fig. 6, ♀, 1873; Mead, Rep. Wheeler Exp., 5, 774, 1875.
Stretchii, Edw. (Chion.), Tr. A. E. Soc., 3, 192, 1870.
Hab.—Col.; Nev.; Mont.

281. **Dionysius**, Scud., Hayden Bull., 4, 254, 1878.

Ashtaroth, Str., Lep., Pt. 14, 129, 1878.

Hab.—Utah.

SATYRUS, Westwood.

Group I.

282. **Pegala**, Fab., Syst. Ent., 494, 1775; Morr., 77, 1862; Edw., Pr. E. Soc. Phil., 6, 195, 1866; id., Can. Ent., 12, 51, 1880.

Pegule, Smith, Br. Bull., 6, 128, 1884.

Hab.—Gulf St.; occasl. to N. J., on coast; Mt. Holly, N. J.

283. **Alope**, Fab.

1. dimorphic form **ALOPE**, Fab., Ent. Syst., 3, 229, 1793; Bd.-Lec., 228, pl. 59, 1833; Harr., 305, fig. 127, 1862; Edw., Pr. E. Soc. Phil., 6, 196–200, 1866; id., Can. Ent., 12, 24, 1880 *; id., But., 2, pl. 2 of Satyr., 1882 *; Smith, Br. Bull., 6, 127, 1884; Fern., But. Me., 72, 1884 *.

Hab.—N. Y. to N. C.; N. Bruns.

var. **TEXANA**, Edw., Can. Ent., 12, 24, 1880; id., But., 2, pl. cit., 1882.

Hab.—Texas.

var. **MARITIMA**, Edw., Can. Ent., 12, 23, 1880; id., But., 2, pl. cit., 1882.

Hab.—Martha's Vineyard; L. I.; east N. J.; Grand Manan Island, N. B. (by Lyman)

2. dimorphic form **NEPHELE**, Kirby, Faun. Bor. Amer., 4, 297, 1837; Edw., Can. Ent., 12, 21, 1880 *; id., But., 2, pl. 3 of Satyr., 1882 *; Smith, Br. Bull., 6, 129, 1884.

Hab.—Ont.; Queb.; Br. Am.; N. E.; N. Y.

var. **OLYMPUS**, Edw., Can. Ent., 12, 31, 1880; id., But. 2, pl. 3 of Satyr., 1882 *.

Hab.—Ill. to Rocky Mts.; Br. Am.

var. **BOÖPIS**, Behr, Pr. Cal. Ac. N. Sci., 3, 164, 1863; Edw., Can. Ent., 12, 54, 1880.

Hab.—Cal. to W. Terr.

sub. var. **INCANA**, Edw., Can. Ent., 12, 91, 1880.

Hab.—W. Terr.

284. **Ariane**, Bd., Ann. Soc. Ent. Fr., 2, 10, 307, 1852; Morr., 77, 1862; Edw., Can. Ent., 12, 90, 1880.
Hab.—Cal.; Weber Mts., Utah.
285. **Baroni**, Edw., Can. Ent., 12, 91, 1880.
Hab.—North. Cal.
286. **Paulus**, Edw., Can. Ent., 11, 50, 1879; id., l. c., 12, 54, 1880; Smith, Br. Bull., 6, 132, 1884.
Hab.—Cal.; Sierra Nev., San Bern.; Nev.
287. **Gabbii**, Edw., Tr. A. E. Soc., 3, 193, 1870; id., Can. Ent., 12, 92, 1880.
Hab.—Oreg.; Weber Mts., Utah.
288. **Wheelerii**, Edw., Tr. A. E. Soc., 4, 343, 1873; id., But., 2, pl. 1 of Satyr., 1877; Mead, Rep. Wheeler Exp., 5, 751, pl. 39, 1875.
Hoffmani, Str., Lep., pl. 4, ♀, 1873, pl. 8, ♂, 1874.
Hab.—Apache, Ariz.; Owen's Lake, So. Cal.; So. Utah.
289. **Meadii**, Edw., Tr. A. E. Soc., 4, 70, 1872; id., Can. Ent., 12, 94, 1880; Mead, Rep. Wheeler Exp., 5, 774, 1875; Smith, Br. Bull., 6, 131, 1884.
Hab.—Mont. to Ariz.
290. **Silvestris**, Edw., Pr. Ac. N. Sci. Phil., 1861, 162; Morr., 327, 1862.
Phocus, Edw., Tr. A. E. Soc., 5, 14, 1875.
Hab.—Cal.; Br. Col.
291. **Oetus**, Bd., Lep. de la Cala, 63, 1869.
Silvestris, Edw., Can. Ent., 12, 93, 1880.
Hab.—North. Cal.
292. **Charon**, Edw., Tr. A. E. Soc., 4, 69, 1872; id., Can. Ent., 12, 94, 1880; Mead, Rep. Wheeler Exp., 5, 773, 1875 *.
Hab.—N. Mex. to Mont.; Br. Ann.

Group II.

293. **Sthenele**, Bd., Ann. Soc. Ent., Fr., 2, 10, 308, 1852; Morr., 77, 1862; Edw., Can. Ent., 12, 92, 1880.
Hab.—San Francisco (believed to be now extinct).

CHIONOBAS, Boisdual.**Group I.**

294. **Gigas**, Butl., Cat. Satyr., Br. Mus., 161, pl. 2, 1868; Edw., But., 2, pl. 1 of Chion., ♀, 1874, pl. 2, ♂, 1875.
Hab.—Vanc. Isld.
295. **Iduna**, Edw., But., 2, pl. 1 of Chion., 1874.
Hab.—Mendocino, Cal.
296. **Californica**, Bd., Lep. de la Cal., 62, 1869; Edw., But. 2, pl. 2 of Chion., 1875.
Hab.—Mt. Hood, Oreg.
297. † **Nevadensis**, Feld., Reise Nov. Lep., 3, 89, pl. 69, 1867.
Hab.—Cal.
298. **Chryxus**, West.-Hew., Gen. Di. Lep., 383, pl. 64, 1851; Mead, Rep. Wheeler Exp., 5, 777, 1875.
Hab.—Col. to Br. Am., Rocky Mts.
299. **Calais**, Seud., ♀, Pr. E. Soc. Phil., 5, 7, 1865; Edw., Can. Ent., 15, 44, 1883.
Tuygete, Edw. (not Hüb.), Pr. Ac. N. Sci. Phil., 1862, 57.
Hab.—Rupert House, Hudson's Bay; N. F'land.
300. **Ivallda**, Mead, Can. Ent., 10, 196, 1878; Edw., But., 2, pl. 4 of Chion., 1879.
Hab.—Nev.; East. Cal.

Group II.

301. **Varuna**, Edw., Can. Ent. 14, 2, 1882.
Hab.—Dak.; Calgary, Br. Am. (by Geddes)
302. **Uhleri**, Reak., Pr. E. Soc. Phil., 6, 143, 1866; Str., pl. 4, fig. 5, ♂, 1873; Mead, Rep. Wheeler Exp., 5, 776, 1875.
Hab.—Col.; Mont.
303. † **Tarpeia**, Esp., Eur. Schmett., 1, pl. 83, 1783; Butl., Cat. Satyr., Br. Mus., 161, 1868.
Hab.—Arctic Am. (auct. Butler)

Group III.

304. **Taygete**, Hüb., Samml. Ex. Schmett., 1816-1824; Müschl., Wien. Ent. Monat., 7, 213, 1863.
Bootes, Bd., Icon., 191, pl. 37, 1862.
Hab.—Lab.; Alaska.

305. **Jutta**, Hüb., Eur. Schmett., 1, figs. 614, 615, 1800-1823; Scud., Pr. E. Soc. Phil., 5, 3, 1865; Fern., But. Me., 75, 1884.
Balder, Hüb., Zutr. Ex. Schmett., figs. 981, 982, 1837; Bd., Icon., pl. 39, 1832.
Hab.—Queb.; Hudson's Bay; Lab.; Orono, Me.
306. **Semidea**, Say, Am. Ent., 3, pl. 50, 1828; Harr., 304, fig. 126, 1862; Scud., Pr. Bost. Soc. N. Hist., 7, 221, pl. 14, 1863 *;
 id., Pr. E. Soc. Phil., 5, 20, 1865.
Oeno, Bd., Icon., 195, pl. 39, 1832.
Also, Bd., l. c., 197, pl. 40, 1832.
Hab.—White Mts., N. H.; Labr.; Ungava Bay; Quickstep Harbor, Gulf of Cumberland.
307. **Crambis**, Frey., Neu. Beitr., 5, 99, pl. 400, 1845.
Also, Müschl. (not Bd.), Wien. Ent. Monat., 7, 205, 1863.
Oeno, Scud. (not Bd.), Pr. E. Soc. Phil., 5, 13, 1865.
Assimilia, Butl., Cat. Satyr. Br. Mus., 163, pl. 2, fig. 10, 1868.
Semidea, Mead (not Say), Rep. Wheeler Exp., 5, 776, 1875.
Hab.—Labr.; Boreal Am.; Alaska; Col.; N. Mex.
308. **Subhyalina**, Curt., App. Ross Exp., 68, 1835.
Hab.—Arctic Am.

LIBYTHEINÆ.

LIBYTHEA, Fabricius.

309. **Bachmanni**, Kirtl., Sill. Jl., 2, 13, 336, 1852; Saund., Can. Ent., 1, 25, fig. 1, 1868; Edw., But., 2, pl. 1 of Liby., 1874 *;
 id., Can. Ent., 13, 226, 1881 *.
Hab.—Atl. St.; Miss. Valley; Texas; Ariz.; Ont.
310. **Carinenta**, Cram., 2, 108, figs. E, F, 1779.
Larvata, Str., Lep., Pt. 14, 1878.
Hab.—Texas; N. Mex.; Ariz.

ERYCINIDÆ.

ERYCININÆ.

LEMONIAS, Westwood.

Group I.

311. **Mormo**, Feld., Wien. Ent. Monat., 3, 271, 1859; id., Reise Nov., Lep., 2, 303, pl. 37, 1865; Morr., 104, 1862.

Dumeti, Behr., Pr. Cal. Ac. N. Sci., 3, 178, 1865.

Mormonia, Bd., Lep. de la Cala., 52, 1869.

Hab.—Cal.; Utah; Ariz.; N. Mex.

312. **Duryi**, Edw., Papilio, 2, 47, 1882.

Hab.—N. Mex.

313. **Cythera**, Edw., Tr. A. E. Soc., 4, 345, 1873; Mead, Rep. Wheeler Exp., 5, 786, p. 36, 1875.

Hab.—Ariz.

314. **Virgulti**, Behr., Pr. Cal. Ac. N. Sci., 3, 178, 1865.

Sonorensis, Feld., Reise Nov., Lep., 2, 303, 1865.

Hab.—So. Cala.

315. **Nais**, Edw. (*Chrysophanus*), Tr. A. E. Soc., 5, 291, 1876; id., But., 2, pl. 1 of Lemon., 1883.

Hab.—Ariz.; N. Mex.; Col.

316. **Palmerii**, Edw., Tr. A. E. Soc., 3, 195, 1870; id., But., 2, pl. 1 of Lemon., 1883.

Hab.—Utah; Ariz.

Group II.

317. **Ares**, Edw., Papilio, 2, 136, 1882.

dimorphic form **CLEIS**, Edw., l. c., 2, 137, 1882.

Hab.—So. Ariz.

EURYGONA, Boisduval.

318. **Abreas**, Edw., Tr. A. E. Soc., 9, 3, 1881.

Hab.—So. Ariz.

CALEPHELIS, Grote and Robinson.

319. **Cænius**, Linn., Syst. Nat., 1, 2, 796, 1767.

Pumila, Bd.-Lee., 131, pl. 37, 1833; Morr., 104, 1862.

Hab.—South. St.

320. **Borealis**, Gr.-Rob., Ann. N. Y. Lyc. N. Hist., 8, 351, 1866.

Hab.—N. Y.; N. J.; W. Va.; Mich.; Ill.

321. **Australis**, Edw., Field and Forest, 3, 87, 1877.

Guadeloupe, Str., Lep., Pt. 14, 1878.

Hab.—So. Texas; Ariz.

322. **Nemesis**, Edw., Tr. A. E. Soc., 3, 212, 1871.

Hab.—Ariz.; So. Cala.

EUMENIA, Latreille.

323. **Atala**, Poey, Cent. Lep. Cuba, pl. 2, 1832; Scud., Mem. Bost. Soc. N. Hist., 413, pl. 14, 1875.
Toxæa, Gray, Griff. Anim. Kingd., 15, pl. 43, 1833.
Hab.—Fla.

LYCÆNIDÆ.**LYCÆNINÆ.****THECLA**, Fabricius.**Group I.**

324. **Grunus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 289, 1852; id., Lep. de la Cal., 43, 1869.
Hab.—No. and So. Cal.; Nev.

Group II.

325. **Chrysalus**, Edw., Tr. A. E. Soc., 4, 344, 1873.
 var. *CITIMA*, H. Edw., Papilio, 1, 53, 1881.
Hab.—So. Cal.

326. **Halesus**, Cram., 2, 98, figs. B, C, 1779; Bd.-Lec., 83, pl. 25, 1833 *; Morr., 91, 1862.

Dolichos, Hüb., Zutr. Ex. Schmett., figs. 219, 220, 1823.

Juanita, Scud., Pr. Bost. Soc. N. Hist., 11, 435, 1868.

Hab.—Gulf St.; Ill.; Nev.; Cal.; Ariz.

327. **M Album**, Bd.-Lec., 86, pl. 26, 1833 *; Morr., 92, 1862.

Psyche, Bd.-Lec., 88, pl. 27, 1833.

Hab.—Gulf St.; Va.; Pa.; Ohio.

Group III.

328. **Favonius**, Sm.-Abb., 1, pl. 14, 1797 *.

Hab.—Gulf St.; S. C.

329. **Autolycus**, Edw., Tr. A. E. Soc., 3, 271, 1871.

Hab.—Texas; Mo.

330. **Alcestis**, Edw., l. c., 3, 271, 1871.

Hab.—Texas; Mt. Graham, Ariz.

331. **Humuli**, Harr., 276, pl. 4, fig. 3, 1862; Fern., But. Me., 76, 1884 *.

Favonius, Bd.-Lec. (not Sm.-Abb.), 95, pl. 30, 1833 *;
 Morr., 95, 1862.

Hyperici, Bd.-Lec., 90, pl. 28, 1833.

Hab.—Atl. St.; Miss. Valley; Mont.

332. **Melinus**, Hüb., Zutr. Ex. Schmett., figs. 121, 122, 1818; Bd., Ann. Soc. Ent. Fr., 2, 10, 287, 1852.
var. **PUDICA**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
Hab.—Cala.; Nev.; Ariz.
333. **Acadica**, Edw., Pr. Ac. N. Sci. Phil., 1862, 55; id., But., 1, 142, pl. 48, 1869; Saund., Can. Ent., 1, 95, 1869 *.
Souhegan, Whitn., Pr. Bost. Soc. N. Hist., 12, 162, 1868.
Hab.—Ont.; Queb.; North. St.; Mont.; Nev.; Ariz.
334. **Californica**, Edw., Pr. Ac. N. Sci. Phil., 1862, 223.
Borus, Bd., Lep. de la Cal., 43, 1869.
var. **CYGNUS**, Edw., Tr. A. E. Soc., 3, 207, 1871.
Hab.—Nev.; Cala. to Vanc. Isld.
335. **Itys**, Edw., Papilio, 2, 23, 1882.
Hab.—Ariz.
336. † **Auretorum**, Bd., Ann. Soc. Ent. Fr., 2, 10, 288, 1852.
Hab.—Cala (this species remains unknown to American collectors).
337. **Dryope**, Edw., Tr. A. E. Soc., ♀, 3, 19; ♂, 3, 93, 1870.
Hab.—Cala.; Nev.; Utah.
338. † **Sylvinus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 287, 1852.
Hab.—Cala (this species has not been identified by American collectors).
339. **Edwardsii**, Saund., Can. Ent., 1, 99, 1869; Gr.-Rob., Tr. A. E. Soc., 1, 172, 1867.
Fulacer, Harr. (not Godt.), 276, 1862.
Calanus, Gr.-Rob. (not Hüb.), l. c. 1, 173, 1867.
Hab.—Ont.; Queb.; Br. Am.; Me. to Neb.; Col.
340. **Wittfeldii**, Edw., Can. Ent., 15, 136, 1883.
Hab.—Indian River, Fla.
341. **Calanus**, Hüb., Samml. Ex. Schmett., 1, 1806-1824; Fern., But. Me., 78, 1884.
Fulacer, Godt., Enc. Meth., 9, 633, 1819; Bd.-Lec., 92, pl. 29, 1833 *; Morr., 95, 1862.
Inorata, Gr.-Rob., Tr. A. E. Soc., 1, 323, 1868.
Hab.—Atl. and West. St.; Texas; Col.; N. Mex.; Ont.; Queb.
var. **LORATA**, Gr.-Rob., l. c., 1, 171, 1867.
Hab.—W. Va.

342. **Ontario**, Edw., Tr. A. E. Soc., 2, 209, 1868; id., But., 1, 145, pl. 48, 1869.
Hab.—Ont.; N. E.
343. **Strigosa**, Harr., 276, 1862; Edw., But., 1, 146, pl. 48, 1869; Saund., Can. Ent., 1, 99, 1869 *; Fern., But. Me., 77, 1884 *.
Lipurops, Scud. (not Bd.-Lec.), Buff. Bull., 3, 111, 1876.
Hab.—Atl. St.; Miss. Valley; Mont.; Col.; Ont.; Queb.
344. **Putnami**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
Hab.—Spring Lake, Utah.
345. **Spadix**, H. Edw., Papilio, 1, 53, 1881.
Hab.—So. Cala.
346. **Tetra**, Behr., in Edw., Tr. A. E. Soc., 3, 19, 1870.
Hab.—Cala.
347. **Chalcis**, Behr., in Edw., l. c., 2, 376, 1879.
Hab.—Cala.; Utah.
348. **Sæpium**, Bd., Ann. Soc. Ent. Fr., 2, 10, 288, 1852; Morr., 99, 1862.
 var. **FULVESCENS**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
Hab.—Cala., W. Terr.; Utah; Nev.; Col.
349. **Nelsoni**, Bd., Lep. de la Cala., 43, 1869.
 var. **EXOLETA**, H. Edw., Papilio, 1, 53, 1881.
 var. **MUIRII**, H. Edw., l. c., 1, 53, 1881.
Hab.—Big Trees and Mendicino, Cala.
350. **Adenostomatis**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
Hab.—No. and So. Cala.
351. **Tacita**, H. Edw., Papilio, 1, 54, 1881.
Hab.—Mt. Shasta, Cala.
352. **Spinetorum**, Bd., in Hew., Ill., Pt. 3, figs. 198, 199, 1867; id., Lep. de la Cala., 42, 1869.
Ninus, Edw., Tr. A. E. Soc., 3, 20, 1871.
Hab.—No. Cala. to W. Terr.; Col.
353. **Siva**, Edw., Tr. A. E. Soc., 5, 110, 1874.
Hab.—Ariz.
354. **Castalis**, Edw., l. c., 3, 208, 1871.
Hab.—Texas.

355. **Smilacis**, Bd.-Lec., 107, pl. 33, 1833 *; Morr., 98, 1862.
Auburniana, Harr., 277, 1862.
Hab.—Atl. and West. St.; N. W. Texas; Point Pelee, Ont. (auct. Saunders)
356. **Acis**, Dru., 1. pl. 1, 1773; Cram., 2, pl. 175, figs. C, D, 1779; Morr., 101, 1862.
Hab.—Key West, Fla.
357. **Poeas**, Hüb., Samml. Ex. Schmett., 1, 1806-1824; Bd.-Lec., 111, pl. 35, 1833; Morr., 103, 1862.
Hab.—South. St.; W. Va.; Ky.; Ind.
358. **Columella**, Fab., Ent. Syst., 3, 1, 282, 1793.
Eurytulus, Hüb., Samml. Ex. Schmett., 2, 1806-1824.
Modesta, Mayn., Am. Nat., 7, 178, 1873.
Ocellifera, Gro., Buff. Bull., 1, 78, 1873.
Hab.—Fla.; Texas; occasl. N. Y.
359. **Clytie**, Edw., Field and Forest, 3, 88, 1877; id., Papilio, 2, 24, 1882.
Hab.—San Antonio, Texas; Ariz.
360. **Leda**, Edw., Papilio, 2, 23, 1882.
Hab.—Ariz.
361. **Ines**, Edw., l. c., 2, 25, 1882.
Hab.—Ariz.
- Group IV.**
362. **Behrii**, Edw., Tr. A. E. Soc., 3, 18, 1870.
Kali, Str., Lep., Pt. 14, 129, 1878.
Hab.—Cala.; Nev.; Col.
363. **Augustus**, Kirby, Faun. Bor. Am., 4, 298, pl. 3, figs. 4, 5, 1837; Harr., 279, fig. 108, 1862; Morr., 103, 1862; Fern., But. Me., 79, 1884.
Hab.—Boreal Am.; Ont.; Queb.; East. St.
364. **Iroides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 289, 1862; Morr., 100, 1862; H. Edw., Pr. Cal. Ac. N. Sci., June, 1878 *.
Hab.—Br. Col. to Ariz.
365. † **Fotis**, Str., Lep., Pt. 14, 129, 1878.
Hab.—Ariz.

366. **Irus**, Godt, Enc. Meth., 9, 674, 1823; Bd.-Lec., 101, pl. 31' 1833; Morr., 97, 1862; Fern., But. Me., 80, 1884.
 var. **ARSACE**, Bd.-Lec., 103, pl. 32, 1833.
 var. **MOSSII**, H. Edw., Papilio, 1, 54, 1881.
Hab.—Atl. and West. St.; Vanc. Isld.
367. **Henrici**, Gr.-Rob., Tr. A. E. Soc., 1, 774, 1867; Edw., Papilio, 1, 150, 1881; Fern., But. Me., 80, 1884 *.
Hab.—W. Va.
368. **Eryphon**, Bd., Ann. Soc. Ent. Fr., 1, 10, 290, 1852; Morr., 1862.
Hab.—Cala.; Col.
369. **Nippon**, Hüb., Zutr. Ex. Schmett., figs. 203, 204, 1823; Fitch, 4th Rep. N. Y. Agr. Soc., 1858, p. 57 *; Morr., 97, 1862; Fern., But. Me., 82, 1884 *; Fletcher, Can. Ent., 16, 92, 1884 *.
Hab.—Atl. and West. St.; Col.; Ont.; Queb.; N. Sco.
370. **Affinis**, Edw., Pr. Ac. N. Sci., Phil., 1862, 223.
Hab.—Utah.
371. **Dumetorum**, Bd., Ann. Soc. Ent. Fr., 2, 10, 291, 1852; Morr., 100, 1862.
Viridis, Edw., Pr. Ac. N. Sci. Phil., 1862, 223.
Hab.—Cala.; Oreg.; Nev.
372. **Apama**, Edw., Papilio, 2, 137, 1882.
Hab.—Ariz.
373. **Sheridanii**, Edw., Field and Forest, 3, 48, 1877.
Hab.—Mont.
374. **Laeta**, Edw., Pr. Ac. N. Sci. Phil., 1862, 55; id., But., 1, 141, pl. 47, 1869; id., Papilio, 2, 8, 1883; Fern., But. Me., 83, 1884.
 ♀ *Clothilde*, Edw., Pr. E. Soc. Phil., 2, 15, 1863.
Hab.—Me. to W. Va.; Atlantic City, N. J.; Ariz.; Ont.; Queb.
375. **Fuliginosa**, Edw. (Lycæna), Pr. Ac. N. Sci. Phil., 1861, 164; Morr., 330, 1862.
Suasa, Bd., Lep. de la Cala., 51, 1869.
Hab.—Cala.; Lake Tahoe, Nev.
376. **Titus**, Fab., Ent. Syst., 3, 297, 1793; Fern., But. Me., 84, 1884 *.

- Mopsus*, Hüb., Zutr., Ex. Schmett., figs. 135, 136, 1818 ;
 Bd.-Lec., 109, pl. 34, 1833 * ; Morr., 102, 1862.
Hab.—N. E. to Ariz. ; Ont. ; Queb. ; Old Man's River, Br. Am.

FENISECA, Grote.

377. **Tarquinius**, Fab., Ent. Syst., 3, 319, 1793 ; Fern., But. Me., 85, 1884.
Cratægi, Bd.-Lec., 128, pl. 37, 1833 ; Morr., 84, 1862.
Porsenna, Send., Pr. Ess. Ins., 3, 163, 1863.
Hab.—Atl. St. ; Miss. Valley ; Ont. ; Queb. ; N. Sco.

CHRYSOPHANUS, Doubleday.**Group I.**

378. **Arota**, Bd., Ann. Soc. Ent. Fr., 2, 10, 293, 1852 ; Morr., 86, 1862 ; Str., Lep., pl. 10, figs. 27, 28, 1874.
Hab.—Cala.
 379. **Virginiensis**, Edw., Tr. A. E. Soc., 3, 21, 1870 ; St., Lep., pl. 10, figs. 21, 22, 1874.
Hab.—Cala. ; Nev. ; Col.
 380. **Hermes**, Edw., l. c., 3, 21, 1870.
Hab.—Cala. ; Nev.

Group II.

381. **Xanthoides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 292, 1852 ; id., Lep. de la Cala., 45, 1869 ; Morr., 86, 1862 ; Str., Lep., pl. 10, figs. 12, 13, 1874.
Hab.—Cala.
 382. **Dione**, Seud., Tr. Chic. Ac. Sci., 1, 330, 1869.
Hab.—Ia. to Kans. ; Neb. ; Mont.
 383. **Editha**, Mead, Can. Ent., 10, 198, 1878.
Hab.—Lake Tahoe, Nev.
 384. **Gorgon**, Bd., Ann. Soc. Ent. Fr., 2, 10, 292, 1852 ; Morr., 86, 1862 ; Str., Lep., pl. 10, fig. 17, 1874.
Hab.—Cala. ; Nev.
 385. **Thoe**, Bd.-Lec., 125, pl. 38, 1833 ; Morr., 84, 1862 ; Saund., Can. Ent., 1, 57, 1869 * ; Bean, Can. Ent., 16, 68, 1884 *.
Hyllus, Edw. (not Cram.)
Hab.—Me. to Neb. ; Ohio ; Kans. ; Col. ; Ont. ; Queb.

Group III.

386. **Mariposa**, Reak., Pr. E. Soc. Phil., 6, 149, 1866; Str., Lep., pl. 10, figs. 25, 26, 1874.
Nivalis, Bd., Lep. de la Cala.; 44, 1869.
Hab.—Cala.; Col.; Mont.; Summit, Br. Am.
387. **Zeroc**, Bd., Lep. de la Cala., 45, 1869.
Ianthe, Edw., Tr. A. E. Soc., 3, 211, 1871; Str., Lep., pl. 10, figs. 23, 24, 1874.
Hab.—Cala.; Col.
388. **Helloides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 291, 1852; Morr., 86, 1862; Mead, Rep. Wheeler Exp., 5, 780, 1875 *; Str., Lep., pl. 10, figs. 19, 20, 1874.
Castro, Reak., Pr. E. Soc. Phil., 6, 148, 1866.
Hab.—Mont. to Ariz.; Oreg.; Cala.
389. **Florus**, Edw., Can. Ent., 15, 210, 1883.
Hab.—Garrett's Rancho, Br. Am. (by Geddes)
390. **Dorcas**, Kirby, Faun. Bor. Am., 4, 299, pl. 4, 1837; Morr., 90, 1862.
Hab.—Kodiak, Alaska; Br. Am.; So. Labr.
391. **Epixanthe**, Bd.-Lec., 127, pl. 38, 1833; Harr., 274, 1862; Morr., 85, 1862; Fern., But. Me., 86, 1884.
Hab.—Br. Am.; Ont.; Queb.; N. F'land.; Me.; N. E.; Kans.
392. **Hypophleas**, Bd., Ann. Soc. Ent. Fr., 2, 10, 291, 1852; Scud., Buff. Bull., 3, 128, 1876.
Phleas, Bd.-Lec., 123, 1833.
Phleas var. *Americana*, D'Urban, Can. Nat., 5, 246, 1857.
Americana, Harr., 273, 1862; Fern., But. Me., 87, 1884
 *.
 aberr. **FASCIATA**, Str., Cat., 101, 1878.
Hab.—North., Mid., West. St.; Cala.; Br. Am. to Pac.; Ont.; Queb.; N. Sco.
 var. **FEILDENI**, McLachl., Linn. Soc. Jl., pl. 14, 111, 1878.
Hab.—Arctic, Lat. 81° 45'.

Group IV.

393. **Cupreus**, Edw., Tr. A. E. Soc., 3, 20, 1870; id., But., 2, pl. 1 of Chrys., 1874.
Hab.—Shasta, Cala.; Oreg.

394. **Snowi**, Edw., Tr. Kans. Ac. Sci., 7, 69, 1881.
Hab.—Col.
395. **Rubidus**, Behr, Pr. E. Soc. Phil., 6, 208, 1866; Edw., But., 2, pl. 1 of Chrys., 1874.
Hab.—Oreg.; Nev.; Mont.
396. **Sirius**, Edw., Tr. A. E. Soc., 3, 270, 1871; id., But., 2, pl. 1 of Chrys., 1874; Str., Lep., pl. 10, figs. 29, 30, 1874.
Hab.—Mont. to Ariz.; Fort Macleod, Br. Am. (by Geddes)

LYCENA, Fabricius.**Group I.**

397. **Heteronea**, Bd., Ann. Soc. Ent. Fr., 2, 10, 298, 1852; Morr., 89, 1862; Edw., But., 2, pl. 1 of Lyc., 1874; Str., Lep., pl. 10, figs. 5, 6, 1874.
Hab.—Cala.; Utah; Nev.; Col.
398. **Clara**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877.
Hab.—So. Cala.
399. **Lycea**, Edw., Pr. E. Soc. Phil., 2, 507, 1864; Mead, Rep. Wheeler Exp., 5, 785, 1875 *.
Rapahoe, Reak., Pr. E. Soc. Phil., 6, 146, 1866; Str., Lep., pl. 10, figs. 14, 15, 1874.
Hab.—Col.; Nev.; Mont.; Ariz.; N. Mex.
400. **Fulla**, Edw., Tr. A. E. Soc., 3, 194, 1870.
Hab.—Cala.; W. Terr.; Vanc. Isld.
401. **Daedalus**, Behr, Pr. Cal. Ac. N. Sci., 3, 280, 1867; Edw., Can. Ent., 16, 2, 1884.
 ♀ *Aehaja*, Behr, l. c., 3, 280, 1867.
 ♂ ♀ *Rufescens*, Bd., Lep. de la Cala., 48, 1869.
Hab.—Sc. Cala.
402. **Saepiolus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 296, 1852; Morr., 88, 1862.
Hab.—Cala.; Nev.; Col.; Mont.; Br. Am.
403. **Icaroides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 297, 1852; Morr., 88, 1862.
 var. **MARICOPA**, Reak., Pr. Ac. N. Sci. Phil., 1866, 245.
Pardalis, Behr, Pr. Cal. Ac. N. Sci., 3, 280, 1867.
Erymus, Bd., Lep. de la Cala., 48, 1869.
Mintha, Edw., Tr. A. E. Soc., 3, 194, 1870.
Hab.—Cala.

404. **Amica**, Edw., Pr. E. Soc. Phil., 2, 80, 1863.
Hab.—Mackenzies River, Br. Am.
405. **Pembina**, Edw., Pr. Ac. N. Sci. Phil., 1862, 224.
Hab.—Slave Lake, Br. Am.
406. **Pheres**, Bd., Ann. Soc. Ent. Fr., 2, 10, 297, 1852; Morr., 89, 1862.
 var. **EVIVS**, Bd., Lep. de la Cala., 49, 1869.
Hab.—Cala. to Br. Col.; Nev.; Col.
407. **Phileros**, Bd., Lep. de la Cala., 50, 1869.
Helios, Edw., Tr. A. E. Soc., 3, 208, 1871.
Hab.—Cala.; Utah; Nev.; Ariz.
408. **Ardea**, Edw., Tr. A. E. Soc., 3, 209, 1871.
Hab.—Nev.
409. **Kodiak**, Edw., l. c., 3, 20, 1870.
Hab.—Kodiak, Alaska.

Group II.

410. **Xerxes**, Bd., Ann. Soc. Ent. Fr., 2, 10, 296, 1852; Morr., 88, 1862.
Hab.—San Francisco, Cala (believed to be extinct).
411. **Antiacis**, Bd., l. c., 2, 10, 300, 1862; Morr., 90, 1862.
 var. **BEHRIL**, Edw., Pr. Ac. N. Sci. Phil., 1862, 224.
Polyphemus, Bd., Lep. de la Cala., 1869.
 var. **MERTILA**, Edw., Pr. E. Soc. Phil., 6, 206, 1866.
Hab.—Cala.; Nev.; Ariz.
 aberr. **ORCUS**, Edw., Tr. A. E. Soc., 2, 376, 1869.
Hab.—Cala.
412. **Couperii**, Grote, Buff. Bull., 1, 185, 1874.
Pembina, Str. (not Edw.), Lep., pl. 10, figs. 10, 11, 1874.
Hab.—Anticosti; So. Labr.; N. F'land.
413. **Afra**, Edw., Can. Ent., 15, 211, 1883.
Hab.—Saskn. (by Geddes)
414. **Lygdamas**, Doubl., Entom., 209, 1842; Edw., But., 1, 150, pl. 49, 1869.
Hab.—Mich.; Wis. to Ga.; W. Va.
 Western form **Oro**, Scud., Can. Ent., 8, 23, 1876.
Hab.—Col.; N. Mex.; Cala.

Group III.

415. **Sagittigera**, Feld., Reise Nov., Lep., 2, 281, pl. 35, 1865.
Catalina, Reak., Pr. Ac. N. Sci. Phil., 1866, 244; Str.,
Lep., pl. 10, figs. 1, 2, 1874.
Lorquini, Behr, Pr. Cal. Ac. N. Sci., 3, 280, 1867.
Dawnia, Edw., Tr. A. E. Soc., 3, 272, 1871.
Viaca, Edw., l. c., 3, 209, 2871.
Rhæa, Bd., Lep. de la Cala., 51, 1869.
Hab.—Cala.; Nev.; Col.
416. **Speciosa**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876; id., Papilio,
1, 55, 1881.
Hab.—So. Cala.
417. **Sonorensis**, Feld., Reise Nov., Lep., 2, 281, pl. 35, 1865.
Regia, Bd., Lep. de la Cala., 46, 1869; Edw., But., 2, pl.
1 of Lycæna, 1874.
Hab.—Los Angeles, San Berno., Cala.

Group IV.

418. **Podarce**, Feld., Reise Nov., Lep., 2, 282, pl. 35, 1865.
Tehama, Reak., Pr. Ac. N. Sci. Phil., 1866, 246.
Cilla, Behr, Pr. Cal. Ac. N. Sci., 3, 281, 1867.
Nestos, Bd., Lep. de la Cala., 50, 1869.
Orbitulus, Str. (not De Prun., not Esp.) Lep., pl. 10, fig.
16, 1874.
Hab.—Cala.; Nev.
419. **Aquilo**, Bd., Icon., 62, pl. 12, figs. 7, 8, 1833.
Franklinii, Curt., App. Ross Exp., 69, pl. A, figs. 8, 9,
1835; Seud., Pr. Bost. Soc. N. Hist., 17, 1875.
Hab.—Arctic Am.; Labr.
420. **Rustica**, Edw., Pr. E. Soc. Phil., 4, 203, 1865.
Hab.—Col.; Br. Am.

Group V.

421. **Enoptes**, Bd., Ann. Soc. Ent. Fr., 2, 10, 298, 1852; Morr., 89,
1862.
Hab.—Cala.; W. Terr.; Ariz.
422. **Glaucion**, Edw., Tr. A. E. Soc., 3, 210, 1871.
Hab.—Col.

423. **Battoides**, Behr, Pr. Cal. Ac. N. Sci., 3, 282, 1867.
Hab.—Cala.; Nev.; Col.
424. **Shasta**, Edw., Pr. Ac. N. Sci. Phil., 1862, 224.
Zelmira, Feld., Reise Nov., Lep., 282, pl. 35, 1865.
Calchas, Behr, Pr. Cal. Ac. N. Sci., 3, 281, 1867.
Nivium, Bd., Lep. de la Cala., 47, 1869.
Lupini, Bd., l. c., 46, 1869.
Minchaha, Scud., Pr. Bost. Soc. N. Hist., 17, 88, 1875.
Hab.—Cala. to Oreg.; Utah; Nev.; Mont.; Col.
425. **Melissa**, Edw., Tr. A. E. Soc., 4, 346, 1873; Mead, Rep. Wheeler
 Exp., 5, 783, pl. 36, 1875; Str., Lep., pl. 10, figs. 8, 9, 1874;
 Edw., Papilio, 4, 91, 1884 *.
Hab.—Ariz.; N. Mex.; Col.; Nev.; Mont.; Kans.
426. **Scudderii**, Edw., ♂, Pr. Ac. N. Sci. Phil., 1861, 164; id., ♀,
 l. c., 1862, 225; Morr., 329, 1862.
Hab.—N. Y.; Mich.; Wis.; Ont.; Lake Lahache, Br. Col.
427. **Lotis**, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1879, 169;
 id., Ent. Cont., 4, 57, 1878.
Hab.—Mendocino, Cala.
428. **Acmon**, Doubl.-Hew., Gen. Di. Lep., pl. 76, 1852.
Antægon, Bd., Ann. Soc. Ent. Fr., 2, 10, 295, 1852.
Hab.—Cala. to Wash. Terr.; Ariz. to Mont.
429. **Aster**, Edw., Can. Ent., 14, 194, 1882.
Hab.—N. Fland.
430. **Annetta**, Mead, Mas.; Edw., Papilio, 2, 48, 1882.
Hab.—Utah.
431. **Anna**, Edw., Pr. Ac. N. Sci. Phil., 1861, 163; Morr., 329, 1862;
 Str., Lep., pl. 10, figs. 4, 5, 1874.
Cajona, Reak., Pr. E. Soc. Phil., 6, 147, 1866.
Argyrotozus, Behr, Pr. Cal. Ac. N. Sci., 3, 281, 1867.
Philemon, Bd., Lep. de la Cala., 47, 1869.
Hab.—Cala. to Col.; Oreg.; Mont.; Belly River, Br. Am. (by
 Geddes)

Group VI.

432. **Pseudargiolus**, Bd.-Lee.
 winter form 1. **LUCIA**, Kirby, ♂, Faun. Bor. Amer., 4, 299,
 pl. 3, figs. 8, 9, 1837; Edw., But., 2, pl. 2 of Lyc., figs. 1,
 2, 1884; Fern., But. Me., 89, 1884.
Hab.—Alaska; Br. Am. to Queb.; Antic.; N. E.; N. Y.; Col.

winter form 2. *MARGINATA*, Edw., *Papilio*, 3, 86, 1883; id.,
But., 2, pl. cit., figs. 3, 4, 1884; Fern., l. c., 88, 1884.

Hab.—Ont.; Queb. to Long Isd.; Col.

winter form 3. *VIOLACEA*, Edw., *Pr. E. Soc. Phil.*, 6, 201,
1866; id., But., 1, 149, pl. 49, 1868; 2, pl. cit., figs. 5, 6,
pl. 3 *Lyc.*, 1884 *; id., *Papilio*, 3, 86, et seq., 1883;
Fern., l. c., 88, 1884.

Hab.—Alaska; Lake Winnipeg; Br. Am.; Ont.; Queb.; Antici.;
N. E. to W. Va.; Col.

dimorphic male *NIGRA*, Edw., But., 1, pl. 49, 1868; 2, pl.
cit., fig. 7.

Hab.—W. Va.; Col.

var. *CINEREA*, Edw., *Papilio*, 3, 8, 1883; id., But., 2, pl. cit.,
figs. 16, 17.

spring form *PSEUDARGIOLUS*, Bd.-Lec. (text, not plate), 118,
1833; Edw., But., 1, 153, pl. 50, 1869; id., *Can. Ent.*,
10, 1, and 131, 1878 *; id., *Papilio*, 3, 86, 1883; id.,
But., 2, pl. cit., figs. 8, 9, l. c., pl. 3 of *Lyc.* *.
Argiolus, Abb.-Sm., pl. 15, 1797.

Hab.—Pa. to Ga.; Wis.; Tenn.

var. *ARIZONENSIS*, Edw., But., 2, pl. 2, cit., figs. 18, 19.

Hab.—Ariz.

summer form *NEGLECTA*, Edw., *Pr. Ac. N. Sci. Phil.*, 1862s
56; id., But., 1, 155, pl. 50, 1869; id., *Can. Ent.*, 7, 81,
1875 *; Lintn., *Can. Ent.*, 7, 122, 1875; Edw., l. c., 10,
1, 1878 *; id., But., 2, pl. 2 of *Lyc.*, figs. 10 to 15, pl.
3, larva, etc., 1884; Fern., But. Me., 89, 1884 *.

Hab.—Ont.; Queb.; N. E. to W. Va.; Mont.; Nev.

Pacific form *PIASUS*, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 299,
1852; Edw., But., 2, pl. 2 of *Lyc.*, fig. 20, ♂, pl. 3, fig.
26, 27, ♂, 1884.

var. *ECHO*, Edw., *Pr. E. Soc. Phil.*, 2, 506, 1864; id., But.
2, pl. 2 of *Lyc.*, fig. 21, ♀.

Hab.—Cala.; Ariz.

Group VII.

433. *Amyntula*, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 294, 1852; Morr.,
87, 1862.

Hab.—Cala.; W. Terr., Ariz.; Nev.; Calgarry, Br. Am.

434. **Comyntas**, Godt., Enc. Meth., 9, 660, 1823; Bd.-Lec., 120, pl. 36, 1833 *; Morr., 83, 1862; Edw., Can. Ent., 8, 202, 1876 *; Fern., But. Me., 91, 1884 *.
Hab.—Atl. St. to Rocky Mts.; Col.
435. **Monica**, Reak., Pr. Ac. N. Sci. Phil., 1866, 244; Str., Lep., pl. 10, fig. 18, 1874.
Hab.—So. Cal.; Ariz.
436. **Alce**, Edw., Tr. A. E. Soc., 3, 272, 1871.
Isola, Mead (not Reak.), Rep. Wheeler Exp., 5, 783, 1875.
Hab.—Col.; N. Mex.; Ariz.; Kans.
437. **Gyas**, Edw., l. c., 3, 210, 1871.
Hab.—Ariz.
438. **Cyna**, Edw., l. c., 9, 3, 1881.
Hab.—San Antonio, Texas.
439. **Filenus**, Poey, Cent. Lep. Cuba, pl. 2, 1832; Bd.-Lec., 114, pl. 35, 1833; Morr., 82, 1862.
Hab.—Gulf States.
440. **Isophthalma**, Herr.-Schaeff., Stett. Ent. Zeit., 73, 1869.
Pseudofea, Morr., Buff. Bull., 1, 186, 1784.
Hab.—Fla.; Ga.
441. **Exilis**, Bd., Ann. Soc. Ent. Fr., 2, 10, 294, 1852; Morr., 87, 1862.
Fea, Edw., Tr. A. E. Soc., 3, 211, 1871.
Hab.—Cal.; Ariz.; N. Mex.; Col.; Texas; Fla.
442. **Ammon**, Luc., Sagr., Hist. Cuba, 7, 612, pl. 16, figs. 7, 7a, 1856.
Hab.—Indian River and So. Fla.
443. **Marina**, Reak., Pr. Ac. N. Sci. Phil., 1868, 87.
Hab.—So. Cal.; So. Col.; Ariz.
444. **Theonus**, Luc., Sagr., Hist. Cuba, 7, 611, pl. 16, figs. 8, 8a, b, 1856.
Cassius, Morr., Buff. Bull., 1, 187, 1874.
445. **S. ata**, Edw., Field and Forest, 3, 86, 1877.
Hab.—San Antonio, Texas; occas. near Racine, Wis. (by Hoy)

HESPERIDÆ.

SECTION I.

CARTEROCEPHALUS, Lederer.

446. **Maudan**, Edw., Pr. E. Soc. Phil., 2, 20, pl. 5, 1863; Fern.,
But. Me., 93, 1884.
Mesapano, Scud., Pr. Bost. Soc. N. Hist., 11, 383, 1868.
Skada, Edw., Tr. A. E. Soc., 3, 196, 214, 1870.
Hab.—Alaska to Labr.; Queb.; Cala.; White Mts., N. H.; Me.
447. **Omaha**, Edw., Pr. E. Soc. Phil., 2, 21, 1863.
Mingo, Edw., l. c., 6, 207, 1866.
Californica, Scud., Syst. Rev., 54, 1872.
Hab.—W. Va.; Col.; Cala.

ANCYLOXYPHA, Felder.

448. **Numitor**, Fab., Ent. Syst., 3, 324, 1793; Morr., 120, 1862;
Fern., But. Me., 94, 1884.
Puer, Hüb., Zutr. Ex. Schmett., figs. 275, 276, 1823.
Marginatus, Harr., 308, 1862.
Hab.—Me. to Texas; Neb.

COPÆODES, Speyer.

449. **Procris**, Edw., Tr. A. E. Soc., 3, 215, 1871.
var. *WACO*, Edw., l. c.; 2, 122, 3, 1868.
Minima, Edw., l. c., 3, 196, 1870.
Hab.—Texas; N. Mex.; Ariz.; So. Cala.
450. **Arene**, Edw., l. c., 3, 214, 1871.
Hab.—Texas; Ariz.
451. **Wrightii**, Edw., Can. Ent., 14, 152, 1882.
Hab.—Mohave, Cala.
452. **Myrtis**, Edw., Papilio, 2, 26, 1882.
Hab.—Ariz.
453. **Eunus**, Edw., Papilio, 1, 47, 1883.
Hab.—Kern River, Cala.

THYMELICUS, Speyer.

454. **Garita**, Reak., Pr. E. Soc. Phil., 6, 150, 1866.
Hylax, Edw., Tr. A. E. Soc., 3, 274, 1871.
Hab.—Col.; Dak.; Fort Ellis, Gr. Am.

455. **Poweschiek**, Park., Am. Ent., 2, 271, 1870.

Hab.—Ia.; Ill.; Mont.; Col.

PAMPHILA, Fabricius.

Group I.

456. **Massasoit**, Scud., Pr. Ess. Ins., 3, 171, 1862.

Hab.—East., Mid. St.; Neb.; Texas; Col.

457. **Zabulon**, Bd.-Lec., pl. 76, 1833; Morr., 116, 1862; Fern., But. Me., 94, 1884 *.

var. **HOBOMOK**, Harr., 313, fig. 137, 1862.

dimorphic form ♀, **POCAHONTAS**, Scud., Pr. Ess. Ins., 3, 171, 1862.

var. ♀, **QUADRAQUINA**, Scud., Pr. Bost. Soc. N. Hist., 11, 381, 1868.

Hab.—Queb.; Ont. to Gulf Mex.; Miss. Valley; Calgary, Br. Am.

458. **Taxiles**, Edw., Tr. A. E. Soc., 9, 5, 1881.

Hab.—Ariz.; Col.; Nev.; So. Cala.

Group II.

459. **Ruricola**, Bd., Ann. Soc. Ent. Fr., 2, 10, 315, 1852; Morr., 109, 1862.

Hab.—Napa Co., Cala.

460. **Oregonia**, Edw., Can. Ent., 15, 150, 1883.

Hab.—Cala.; Nev.; Br. Am.

461. **Columbia**, Scud., Syst. Rev., 56, 1872.

Sylvanoides, Scud. (not Bd.), Mem. Bost. Soc. N. Hist., 2, 349, pl. 10, figs. 21, 22, 1874.

Hab.—Cala.

462. **Colorado**, Scud., l. c., 349, pl. 10, figs. 16-18, 1874.

Hab.—Cala.; W. Terr.; Col.; Ariz.

var. **IDAHO**, Edw., Can. Ent., 15, 148, 1883.

Hab.—Cala.; Oreg.; W. Terr.; Br. Am.

463. **Nevada**, Scud., l. c., 347, pl. 10, figs. 1-4, 1874.

Hab.—Nev.; Col.; Ariz.; Br. Am.

464. **Manitoba**, Scud., l. c., 351, pl. 10, figs. 8-11, 1874.

Hab.—Lake Winnipeg; Br. Col.; W. Terr.; Cala.

465. **Juba**, Scud., l. c., 349, pl. 10, figs. 19, 20, 1874.
Hab.—Cala.; Col.
var. **VIRIDIS**, Edw., Can. Ent., 15, 147, 1883.
Hab.—Los Vegas, N. Mex.
466. **Sassacus**, Harr., Ins. Mass., 315, 1862; Scud., Pr. Ess. Ins., 3, 173, 1862; id., Mem. Bost. Soc. N. Hist., 2, 346, pl. 10, figs. 5, 7, 1874; Fern., But. Me., 96, 1884.
Hab.—N. E.; N. Y. to Neb.; Ga.; Fla.; Col.
467. **Harpalus**, Edw., Tr. A. Soc., 9, 3, 1881.
Hab.—Nev.
468. **Pawnee**, Dodge, Can. Ent., 6, 44, 1874.
Hab.—Neb.; Mont.
469. **Ottoe**, Edw., Pr. E. Soc. Phil., 6, 207, 1866; Scud., Mem. Bost. Soc. N. Hist., 2, 348, pl. 10, fig. 6, 1874.
Hab.—Neb.; Ind. Terr.; Ariz.
470. **Lasus**, Edw., ♂, Papilio, 4, 54, 1884.
Hab.—So. Ariz.
471. **Cabelus**, Edw., Tr. A. E. Soc., 9, 4, 1881.
Hab.—Nev.; Cala.
472. **Napa**, Edw., Pr. E. Soc. Phil., 4, 202, pl. 1, 1864.
Dacotah, Edw., Tr. A. E. Soc., 3, 277, 1871.
Hab.—Col.
473. **Metca**, Scud., Pr. Ess. Ins., 3, 177, 1862.
? ♀, *Ridingsii*, Reak., Pr. E. Soc. Phil., 6, 151, 1866.
Hab.—Conn.; N. Y.; Texas; Col.
474. **Rhesus**, Edw., Field and Forest, 3, 116, 1877.
Hab.—Col.; Ariz.
475. **Carus**, Edw., Can. Ent., 15, 34, 1883.
Hab.—West Texas; Ariz.
476. **Uncas**, Edw., Pr. E. Soc. Phil., 2, 19, pl. 5, ♂, 1863.
Hab.—Del. to Ohio; Dak. to Ariz.; Br. Am.
477. **Licinus**, Edw., Tr. A. E. Soc., 3, 275, 1871.
Hab.—Texas.
478. **Seminole**, Scud., Syst. Rev., 55, 1872.
Hab.—Fla.; N. C.; N. J.; Ia.

479. *Attalus*, Edw., Tr. A. E. Soc., 3, 276, 1871.
Hab.—Texas.
480. *Yuma*, Edw., l. c., 4, 346, 1873.
Hab.—Ariz.
481. *Snowi*, Edw., ♂, Can. Ent., 9, 29, 1877; ♀, Field and Forest, 3, 117, 1877.
Hab.—Col.; N. Mex.; Ariz.
482. *Leonardus*, Harr., 314, fig. 138, 1862; Morr., 110, 1862; Fern., But. Me., 95, 1884.
Hab.—N. E. to W. Va.; Indian River, Fla.; Kans.; Queb.
483. *Meskei*, Edw., Can. Ent., 9, 58, 1877.
Straton, Edw., ♂ ♀, Papilio, 1, 78, 1881.
Hab.—Texas; Indian River, Fla.
484. *Nemorum*, Bd., Ann. Soc. Ent. Fr., 2, 10, 314, 1852; Morr., 107, 1862.
Yreka, Edw., Pr. E. Soc. Phil., 6, 207, 1866.
Hab.—Cala.
485. *Sylvanoides*, Bd., l. c., 2, 10, 313, 1852; Morr., 107, 1862.
Sonora, Seud., Syst. Rev., 57, 1872.
Hab.—Cala.; Neb.; Col.; W. Terr.
486. *Agricola*, Bd., l. c., 2, 10, 314, 1852; Morr., 108, 1862.
Hab.—Cala.; Nev.; W. Terr.
487. *Milo*, Edw., Can. Ent., 15, 34, 1883.
Hab.—Mt. Hood, Oreg.
488. *Pratincola*, Bd., l. c., 2, 10, 315, 1852; Morr., 108, 1862.
Hab.—Cala.; W. Terr.
489. *Verus*, Edw., Tr. A. E. Soc., 9, 4, 1881.
Hab.—Havilah, Cala.
490. *Campestris*, Bd., l. c., 2, 10, 316, 1852; Morr., 108, 1862.
Hab.—So. Cala.
491. *Huron*, Edw., Pr. E. Soc. Phil., 2, 16, pl. 1, 1863.
Hab.—Atl. St. to Fla.; Miss. Valley; Texas; Ariz.
492. *Morrisonii*, Edw., Field and Forest, 3, 116, 1878.
Hab.—So. Col.; Ariz.

Ess. Ins.,
ol. 10, figs.

Mem. Bost.

, 1866.

3.

493. *Phylæus*, Drury, 1, pl. 13, 1770; Bd.-Lec., pl. 78, 1833; Morr., 118, 1862; Chapm., Can. Ent., 11, 190, 1879 *.
Bucephalus, Humph.-West., Br. But., 126, pl. 40, 1841.
Hab.—Mid. and Gulf St. to Pac.
494. *Brettoides*, Edw., Papilio, 3, 71, 1883.
Hab.—Texas; Utah.
495. *Brettus*, Bd.-Lec., ♀, pl. 75, 1833; Morr., 118, 1862.
♂, *Wingina*, Scud., Pr. Ess. Ins., 3, 173, 1862.
Hab.—Gulf St.; W. Va.
496. *Chusca*, Edw., Tr. A. E. Soc., 4, 346, 1873.
Hab.—Ariz.
497. *Draco*, Edw., l. c., 3, 274, 1871.
Hab.—Col.
498. *Sabuleti*, Bd., Ann. Ent. Soc. Fr., 2, 10, 316, 1852; Morr., 109, 1862.
Hab.—Cala.
499. *Otho*, Sm.-Abb., pl. 16, 1797.
var. *EGEREMET*, Scud., Pr. Ess. Ins., 3, 174, 1862; Fern.,
But. Me., 97, 1884.
Otho, Bd.-Lec., pl. 17, 1833 *.
Aetna, Scud., Syst. Rev., 58, 1872.
Ursa, Worth., Can. Ent., 12, 49, 1880.
Hab.—Atl. St.; Miss. Valley; Texas; Ont.
500. *Peckius*, Kirby, Faun., Bor. Am., 4, 300, pl. 4, fig. 5, 1837;
Morr., 120, 1862; Fern., But. Me., 97, 1884.
Wamsutta, Harr., 318, fig. 141, 1862.
Hab.—N. E. to Wis.; W. Va.; Kans.; Ont.; Queb.
501. *Mystic*, Scud., Pr. Ess. Ins., 3, 172, 1862; Edw., Pr. E. Soc.
Phil., 2, 15, pl. 1, 1863; Fern., But. Me., 98, 1884 *.
Hab.—N. E.; N. Y.; Ont.; Queb.
502. *Siris*, Edw., Papilio, 1, 47, 1881.
Hab.—Puget Sound, W. Terr.
503. *Mardon*, Edw., Papilio, 1, 47, 1881.
Hab.—Puget Sound, W. Terr.
504. *Cernes*, Bd.-Lec., pl. 76, 1833; Fern., But. Me., 99, 1884.
Arogos, id., l. c., pl. 76.
Ahaton, Harr., 317, fig. 140, 1862.
Hab.—N. E. to Mont.; Fla.; Br. Am.; Ont.; Queb.

505. **Manataqua**, Scud., Pr. Ess. Ins., 3, 175, 1862; Fern., But. Me., 100, 1884.
Cernes, Harr., 316, 1862.
Hab.—U. S. generally; Br. Am.
506. **Verna**, Edw., Pr. Ac. N. Sci. Phil., 1862, 57.
Pottawattomie, Worth., Can., Ent. 12, 50, 1880.
Hab.—N. Y.; Md. to Ga.; W. Va.; Ohio; Ind.; Kans.
507. **Vestris**, Bd., ♀, Ann. Soc. Ent. Fr., 2, 10, 317, 1852.
Kiowah, Reak., Pr. E. Soc. Phil., 6, 150, 1866.
Oseola, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1878, 170; id., Ent. Cont., 4, 58, 1878.
Hab.—Cal.; Col.; Indian River, Fla.
508. **Metacommet**, Harr., 317, 1862; Fern., But. Me., 100, 1884.
Rurea, Edw., Pr. Ac. Sci. Phil., 1862, 58.
Hab.—N. E. to Mont.; Kans.; Nev.; Ont.; Queb.
509. **Bellus**, Edw., Papilio, 4, 57, 1884.
Hab.—So. Ariz.
510. **Accius**, Sm.-Abb., pl. 23, ♀, 1797; Chapm., Can. Ent., 11, 191, 1879 *.
Monoco, Scud., Pr. Ess. Ins., 3, 178, 1862.
Nortonii, Edw., Tr. A. E. Soc., 1, 287, 1867.
Punctella, Gr.-Rob., Tr. A. E. Soc., 1, 1, 1867.
Hab.—Gulf St.; N. C.; East Pa. (auct. Aaron)
511. **Loammi**, Whitn., Can. Ent., 8, 76, 1876.
Regulus, Edw., Tr. A. E. Soc., 9, 5, 1881.
Hab.—Fla.; N. C.
512. **Horus**, Edw., Tr. A. E. Soc., 3, 277, 1871.
Hab.—Texas.
513. **Deva**, Edw., ♀, Tr. A. E. Soc., 5, 292, 1876; id., ♂, l. c., 9, 5, 1881; id., Papilio, 2, 138, 1882, 4, 55, 1884.
Hab.—So. Col.; Ariz.
514. **Lunus**, Edw., Papilio, 4, 56, 1884.
Hab.—So. Ariz.
515. **Maculata**, Edw., Pr. E. Soc. Phil., 4, 201, pl. 1, 1865; Chapm., Can. Ent., 11, 191, 1879 *.
Hab.—Gulf St.; occasl. N. Y.

516. **Panoquin**, Scud., Pr. Ess. Ins., 3, 178, 1662.
Ophis, Edw., Tr. A. E. Soc., 3, 216, 1871.
Hab.—Gulf St.; Atlantic City, N. J.
517. **Ocola**, Edw., Pr. E. Soc. Phil., 2, 20, pl. 11, 1863.
Hab.—Gulf St.; East Pa. (auct. Aaron); Whitings, Ind.
518. **Ethlius**, Cram., 4, pl. 392, figs. A, B, 1782.
Chemnis, Fab., Ent. Syst., 3, 331, 1793.
Olynthus, Bd.-Lec., pl. 75, 1833.
Hab.—Gulf St.; occasl. N. Y.
519. **Pittacus**, Edw., Papilio, 2, 138, 1882.
Hab.—Ariz.
520. **Python**, Edw., l. c., 2, 139, 1882.
Hab.—Ariz.
521. **Cestus**, Edw., l. c., 4, 57, 1884.
Hab.—So. Ariz.
522. **Rhena**, Edw., Field and Forest, 3, 115, 1877.
Hab.—So. Col.
523. **Bimacula**, Gr.-Rob., Ann. N. Y. Lye. N. Hist., 8, 433, 1867;
Fern., But. Me., 101, 1884.
Acanootus, Scud., Pr. Bost. Soc. N. Hist., 11, 381, 1868.
Illinois, Dodge, Can. Ent., 4, 217, 1872.
Hab.—N. E. to Neb.; Ill.
524. **Pontiac**, Edw., Pr. E. Soc. Phil., 2, 17, pl. 11, ♂, 1863.
Conspicua, Edw., l. c., 2, 17, pl. 5, ♀, 1863; Parker, ♂,
Can. Ent., 3, 51, 1871.
Orono, Scud., Syst. Rev., 58, 1872.
Hab.—Mass. to Neb.; N. J.
525. **Dion**, Edw., Can. Ent., 11, 238, 1879.
Hab.—Neb.; Hamilton, Ont.
526. **Arpa**, Bd.-Lec., pl. 68, 1833; Chapm., Can. Ent., 11, 191, 1879
*.
Hab.—Gulf States.
527. **Palatka**, Edw., Tr. A. E. Soc., 1, 287, 1867; Chapm., l. c., 11,
192, 1879 *.
Hab.—Gulf States; Neb.

528. **Melane**, Edw., Tr. A. E. Soc., 2, 312, 1869.
Hab.—Cala.
529. **Vitellius**, Sm.-Abb., pl. 17, 1797.
Iowa, Seud., Tr. Chic. Ac. N. Sci., 336, 1868.
Hab.—Ga.; So. Texas; Ia.; Neb.
530. **Delaware**, Edw., 8, Pr. E. Soc. Phil., 2, 19, pl. 5, 1863.
♀ *Logan*, Edw., l. c., 2, 18, pl. 1, 1863.
Hab.—Mass. to Fla.; Ill.; Kans.; Mont.
531. **Lagus**, Edw., Tr. A. E. Soc., 9, 5, 1881.
Hab.—West Texas; So. Col.
532. **Byssus**, Edw., Can. Ent., 12, 224, 1880.
Hab.—Indian River, Fla.; Texas.
533. **Phylace**, Edw., Field and Forest, 3, 117, 1877.
Hab.—So. Col.; Ariz.
534. **Osyka**, Edw., Tr. A. E. Soc., 1, 288, 1867.
Hab.—Gulf St.; Whitings, Ind.
535. **Comus**, Edw., l. c., 5, 206, 1876.
Nilus, Edw., Field and Forest, 3, 118, 1877.
Hab.—Texas; So. Col.
536. **Eufala**, Edw., l. c., 2, 311, 1869.
Hab.—Fla.; Texas.
537. **Arabus**, Edw., Papilio, 2, 26, 1882.
Hab.—Ariz.
538. **Fusca**, Gr.-Rob., Tr. A. E. Soc., 1, 2, 1867.
Hab.—Gulf St.
539. **Nereus**, Edw., l. c., 5, 205, 1876; id., Papilio, 2, 139, 1882.
Hab.—Ariz.
540. **Hianna**, Seud., Pr. Bost. Soc. N. Hist., 11, 382, 1868.
Hab.—Mass. to Neb.
541. **Viator**, Edw., Pr. E. Soc. Phil., 4, 202, pl. 1, 1865.
Hab.—Gulf St.; Mass.; N. J.; Ill.; Wis.; Hamilton, Ont.
- AMBLYSCIRTES**, Speyer.
542. **Vialis**, Edw., Pr. Ac. N. Sci. Phil., 1862, 58; Fern., But. Me., 101, 1884.
Hab.—Orono, Me.; Mid., South., West. St.; Queb.

543. **Nysa**, Edw., Can. Ent., 9, 191, 1877.
Smitis, Str., Lep., Pt. 14, 1878.
Hab.—Texas.
544. **Eos**, Edw., Tr. A. E. Soc., 3, 276, 1871.
Hab.—Texas; Ga.; Fla.
545. **Samoset**, Scud., Pr. Ess. Ins., 3, 176, 1862; Fern. But. Me., 102, 1884.
Hegon, Scud., l. c., 3, 176, 1862.
Nemoris, Edw., Pr. E. Soc. Phil., 2, 507, 1863; id., l. c., 4, pl. 1, 1865.
Alternata, Gr.-Rob., Tr. A. E. Soc., 1, 3, 1867.
Hab.—North. and Mid. St.; Me. to Ga.; Wis.; Ia.; Ont.; Queb.
546. **Aenus**, Edw., Field and Forest, 3, 118, 1877.
Hab.—West Texas; So. Col.; N. Mex.; Ariz.
547. **Simius**, Edw., Tr. A. E. Soc., 9, 6, 1881.
Hab.—So. Col.; Ariz.
548. **Cassus**, Edw., 3, 72, 1883.
Hab.—Mt. Graham, Ariz.
549. **Nanno**, Edw., Papilio, 2, 142, 1882.
Hab.—Ariz.
550. **Textor**, Hüb., Zutr. Ex. Schmett., figs. 515, 516, 1825.
Oneko, Scud., Pr. Ess. Ins., 3, 176, 1862.
Wakulla, Edw., Tr. A. E. Soc., 2, 311, 1869.
Hab.—N. C. to Texas.

SECTION II.

PYRGUS, Westwood.

Group I.

551. **Ericetorum**, Bd., Ann. Soc. Ent. Fr., 2, 10, 313, 1852; Morr., 122, 1862.
Alba, Edw., Pr. E. Soc. Phil., 6, 206, 1866.
Hab.—N. Mex.; Ariz.; Cala.; Oreg.
552. **Oceanus**, Edw., Tr. A. E. Soc., 3, 213, 1871.
Hab.—Ariz.
553. **Domicella**, Erichs., Schomb. Reise, 3, 601, 1848.
 var. **NEARCHUS**, Edw., Papilio, 2, 26, 1882.
Hab.—Ariz.

554. **Tessellata**, Scud., Syst. Rev., 52, 1872.
Oileus, Humph.-West. (not Linn.), Br. But., pl. 38, 1841.
Communis, Gr., Can. Ent., 4, 69, 1872; id., l. c., 4, 220, 1872.
 var. **MONTIVAGUS**, Reak., Pr. Ac. N. Sci. Phil., 1866, 46.
Hab.—Pa. to Gulf; Atl. to Pac.; Br. Am.
555. **Centaureæ**, Ramb., Faun. Ent. And., pl. 8, fig. 10, 1839.
Ruralis, Bd., Ann. Soc. Ent. Fr., 2, 10, 311, 1852; Morr., 121, 1862.
Wyandot, Edw., Pr. E. Soc. Phil., 2, 21, pl. 5, 1863.
Hab.—N. Y.; W. Va.; Col.; Labr.
556. **Philetas**, Edw., Papilio, 1, 46, 1881.
Hab.—West Texas.
557. **Cæspitalis**, Bd., Ann. Soc. Ent. Fr., 2, 10, 312, 1852; Morr., 121, 1862.
Ricara, Edw., Pr. E. Soc. Phil., 4, 203, pl. 1, 1865.
Petreius, Edw., Tr. A. E. Soc., 3, 195, 1870.
Hab.—Col.; Nev.; Cala.; Oreg.
558. **Xanthus**, Edw., Field and Forest, 3, 142, 1877.
Hab.—So. Col.
559. **Scriptura**, Bd., Ann. Ent. Soc. Fr., 2, 10, 312, 1852; Morr., 121, 1862.
Hab.—Cala.; Ariz.; Mont.

Group II.

560. **Nessus**, Edw., Can. Ent., 9, 192, 1877.
Notabilis, Str., Lep., Pt. 14, 131, 1878.
Hab.—Coast to San Antonio, Texas.

NISONIADES, Speyer.

561. **Brizo**, Bd.-Lec., pl. 66, 1833 *; Morr., 114, 1862; Harr., 309, fig. 132, 1862; Fern., But. Me., 102, 1884.
Hab.—Atl. to Rocky Mts.; Col.; Ariz.; Br. Am.; Ont.; Queb.
562. **Icelus**, Lintn., 23d Rep. N. Y. St. Cab. N. Hist., 1872, 162; id., Ent. Cont., 1, 30, pl. 7, figs. 5, 6, 1872; id., Papilio, 1, 72, 1881; Fern., But. Me., 103, 1884.
Hab.—N. E. to Mich.; Ill.; Fla.; Col.; Ariz.; W. Terr.; Ont.

563. **Somnus**, Lintn., Papilio, 1, 73, 1881.
Hab.—Indian River, Fla.
564. **Lucilius**, Lintn., 23d Rep. N. Y. St. Cab. N. Hist., 1872, 162;
id., Ent. Cont., 1, 32, pl. 7, figs. 1, 2, 1872; id., l. c., 4, 67,
1878 *.
565. **Persius**, Seud., Pr. Ess. Ins., 3, 170, 1862; Fern., But. Me.,
103, 1884.
Hab.—N. E. to Mont.; W. Terr.; Col.; N. Mex.
566. **Alpheus**, Edw., Tr. A. E. Soc., 5, 206, 1876; id., Papilio, 2,
139, 1882.
Oricus, Edw., Can. Ent., 11, 51, 1879.
Hab.—N. Mex.; Ariz.; Nev.
567. **Ausonius**, Lintn., 23d Rep. N. Y. St. Cab. N. Hist., 1872, 166;
id., Ent. Cont., 34, pl. 7, figs. 11, 12, 1872.
Hab.—Mid. St.; W. Va.
568. **Afranius**, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1878,
175; id., Ent. Cont., 4, 63, 1878.
Hab.—So. Col.; Ariz.
569. **Martialis**, Seud., Tr. Chic. Ac. N. Sci., 1, 335, 1869; Lintn.,
Ent. Cont., pl. 7, figs. 7, 8, 1872.
Hab.—Atl. St. to Fla.; Miss. Valley; Kans.; Col.
570. **Juvenalis**, Fab., Ent. Syst., 3, 339, 1793; Sm.-Abb., pl. 21,
1797 *; Bd.-Lec., pl. 65, 1883 *; Harr., 309, 1862 *;
Morr., 114, 1862.
Costalis, Doubl.-Hew., Gen. Di. Lep., 2, 519, pl. 79, 1852.
Hab.—Atl. St. to Fla.; Miss. Valley; Col.; Ariz.; Ont.; Queb.
571. **Petronius**, Lintn., Papilio, 1, 70, 1881.
Hab.—Indian River, Fla.
572. **Propertius**, Lintn., Papilio, 1, 71, 1881.
Hab.—Cala.
573. **Nævius**, Lintn., Papilio, 1, 69, 1881.
Hab.—Indian River, Fla.
574. **Pacuvius**, Lintn., 30th Rep. N. Y. St. Mus. N. Hist., 1878, 172;
id., Ent. Cont., 4, 60, 1878.
Hab.—N. Mex.; Ariz. Col.

575. **Tatius**, Edw., Papilio, 2, 179, 1882.

Hab.—Ariz.

576. **Clitus**, Edw., Papilio, 2, 180, 1882.

Hab.—Ariz.

577. **Funeralis**, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1878, 173; id., Ent. Cont., 4, 61, 1878.

Hab.—Texas; Ariz.; So. Cal.

578. **Tristris**, Bd., Ann. Soc. Ent. Fr., 2, 10, 311, 1852; Morr., 115, 1862; Lintn., Ent. Cont., 4, 62, 1878.

Hab.—Cal.; Ariz.

SYNTASEA, Butler.

579. **Zampa**, Edw., Tr. A. E. Soc., 5, 207, 1876.

Hab.—Ariz.; So. Texas.

PHOLISORA, Speyer.

580. **Catullus**, Fab., Ent. Syst., 3, 348, 1793; Sm.-Abb., pl. 24, 1797 *; Morr., 115, 1862.

Hab.—U. S. generally.

581. **Pirus**, Edw., ♂, Field and Forest, 3, 119, 1878; id., ♀, Tr. A. E. Soc., 9, 7, 1881.

Hab.—So. Cal.; N. Mex.; Ariz.

582. **Ceos**, Edw., Papilio, 2, 140, 1882.

Hab.—Ariz.

583. **Hayhurstii**, Edw., Tr. A. E. Soc., 3, 22, 1870.

Hab.—W. Va. to Kans.; Fla.; Texas; N. Mex.

584. **Libya**, Scud., Rep. Hayden Bull., 4, 258, 1878.

Hab.—Utah; Mohave, Cal.

585. **Lena**, Edw., Can. Ent., 14, 5, 1882.

Hab.—Mont.

ACHLYODES, Westwood.

586. **Thraso**, Hüb., Samml. Ex. Schmett., 1, 1806-1816; Bd., Sp. Gen., 1, pl. 13, fig. 6, 1836.

Tamenund, Edw., Tr. A. E. Soc., 3, 215, 1871.

Hab.—Texas.

EUDAMUS, Swainson.**Group I.**

587. **Electra**, Lintn., Can. Ent., 13, 63, 1881.
Hab.—Hamilton, Ont. (by Moffat)
588. **Pylades**, Seud., Pr. Bost., Soc. N. Hist., 13, 207, 1870; Fern.,
 But. Me., 104, 1884 *.
Bathyllus, Harr. (not Sm.-Abb.), 312, fig. 135, 1862.
Hab.—N. E. to Fla.; Dak.; Col.; Cala.; Ont.; Queb.
589. **Nevada**, Seud., Syst. Rev., 50, 1872; Lintn., Papilio, 1, 74,
 1881.
Hab.—Texas; Ariz.; Col.
590. **Bathyllus**, Sm.-Abb., pl. 22, 1797 *; Bd.-Lec., pl. 74, 1833
 *; Morr., 106, 1862.
Hab.—W. Va. to Fla.; Kans.; N. Mex.
591. **Moschus**, Edw., Papilio, 2, 141, 1882.
Hab.—Ariz.
592. **Hippalus**, Edw., l. c., 2, 27, 1882.
Hab.—Ariz.
593. **Drusius**, Edw., Can. Ent., 15, 211, 1883.
Hab.—So. Ariz.
594. **Epigena**, Butl., Tr. E. Soc. Lond., 4, 493, 1870; id., Lep. Exot.,
 65, pl. 25, fig. 6, 1870; Lintn., Ent. Cont., 4, 69, 1878; Edw.,
 Papilio, 2, 141, 1882.
Hab.—Texas; Ariz.
595. **Lycidas**, Sm.-Abb., pl. 20, 1797 *; Bd.-Lec., pl. 71, 1833 *;
 Morr., 106, 1862.
Lyciades, Hüb., Zutr. Ex. Schmiett., figs. 621, 622, 1832.
Hab.—Mass. to Gulf Mex.; Miss. Valley.
596. **Cellus**, Bd.-Lec., pl. 73, 1833 *; Morr., 105, 1862.
Festus, Hüb., Zutr. Ex. Schmiett., figs. 907, 908, 1837.
Hab.—W. Va. to Gulf Mex.; Texas; Ariz.

Group II.

597. † **Hesus**, West.-Hew., Gen. Di. Lep., pl. 78, 1852.
Hab.—Texas.

598. **Zestos**, Hüb., Zutr. Ex. Schmett., figs. 615, 616, 1832.

Oberon, Worth., Papilio, 1, 132, 1881.

Tityrus, var. *Oberon*, Aaron, Papilio, 4, 26, 1884.

Hab.—Fla.; Sanford, Marco Isld.

599. **Tityrus**, Fab., Syst. Ent., 532, 1875; Sm.-Abb., pl. 19, 1797

*; Bd.-Lec., pl. 72, 1833 *; Fitch, 5th Rep. N. Y. Agr. Soc., 1859, 152 *; Morr., 112, 1862; Harr., 310, figs. 133, 134, and pl. 5, fig. 1, 1862 *.

Hab.—U. S. generally; Br. Am.; Ont.; Queb.

Group III.

600. **Proteus**, Linn., Syst. Nat., 1, 2, 794, 1767; Sm.-Abb., pl. 18,

1797 *; Bd.-Lec., pl. 69, 1833 *; Morr., 106, 1862; Chapm., Can. Ent., 11, 193, 1879 *.

Hab.—South. St.; occasl. N. Y.

601. **Simplicius**, Stoll, Suppl. Cram., pl. 39, figs. 6, 6 E, 1791.

Hab.—Texas; Ariz.

602. **Albofasciatus**, Hew., Desc. Hesp., Pt. 2, No. 2, 1867.

Hab.—Texas; Ariz.

Group IV.

603. **Dorus**, Edw., Papilio, 2, 140, 1882.

Hab.—So. Ariz.

ERYCIDEN, Westwood.

604. † **Urania**, West.-Hew., Gen. Di. Lep., 510, pl. 79, 1852.

Hab.—Texas.

605. † **Texana**, Scud., Syst. Rev., 47, 1872.

Hab.—Texas.

606. † **Sanguinea**, Scud., l. c., 47, 1872.

Hab.—Texas.

607. **Batabano**, Lef., Sagr., Hist. Cuba, 7, 264, pl. 1, figs. 4, 5, 1867.

Mancinus, Herr.-Schaeff., Corr. Regensb., 16, 624, 1856.

Okeechobee, Worth., Papilio, 1, 133, 1881.

Hab.—Fla.; Cuba.

608. **Amyntas**, Fab., Ent., 533, 1775.

Savignyi, Latr., Enc. Meth., 9, 741, 1823.

Hab.—Key West, Fla.

PYRRHOPYGA, Westwood.

609. **Araxes**, Hew., Desc. Hesp., Pt. 2, No. 3, 1867; Edw., *Papilio*, 2, 142, 1882.

Hab—Ariz.

MEGATHYMUS, Riley.

610. **Yuccæ**, Bd.-Lec., pl. 70, 1833 *; Riley, Tr. Ac. Sci. St. Louis, 323-344, 1876, id., 8th Mo. Ent. Rep., 169, 1876; id., 9th Mo. Ent. Rep., 129, 1877 *.

Hab.—South. St.; N. Mex.; Ariz.

var. **COLORADENSIS**, Riley, Tr. Ac. Sci. St. Louis, 3, 566-568, 1877.

Hab.—Col.

611. **Cofaqui**, Str., Pr. Ac. N. Sci. Phil., 1876, 148 ♀ *.

Hab.—Fla.; Col.

612. **Neumoegenii**, Edw., *Papilio*, 2, 27, 1882.

Hab.—Ariz.

Species at some time accredited to the North American fauna, but omitted in this Catalogue for want of authentication:

- Papilio Zonaria**, Butl., Ent. Mo. Mag., 5, 270, 1869; Bd.-Lec., 11, pl. 3, 1833.

Simon, Cram. (not Fab.), 4, pl. 317, figs. C, D, 1782.

“ **Mylothes**, Bates, Tr. E. Soc. Lond., 3, 5, 346, 1861.

“ **Devilleersii**, Godt., Enc. Meth., 9, 810, 1823; Bd.-Lec., 36, pl. 14, 1833.

Leptalis Melite, Linn., Syst. Nat., 2, 755, 1767.

Neophasia Terlooii, Behr, Tr. A. E. Soc., 2, 304, 1869 (Mexican).

Callidryas Cipris, Fab., Ent. Syst., 3, 212, 1793.

Gonepteryx Maerula, Fab. Syst. Ent., 479, 1775; Bd.-Lec., 71, pl. 23, 1833.

“ **Clorinde**, Godt., Enc. Meth., 9, 813, 1823.

Terias Elathea, Cram., 2, pl. 99, 1779.

Midea, Mén., Nouv. Mém. Soc. Imp. Nat. Mosc., 3, pl. 2, 1834.

“ **Palmyra**, Poey, Mem. Nat. Hist. Cuba, 1, 249, pl. 24, 1851.

Ceratinia Lycaste, Fab., Ent. Syst., 3, 161, 1793.

Mechanitis Californica, Reak., Pr. E. Soc. Phil., 5, 223, 1865.

Ithomia Diaphana, Dru., 2, pl. 7, 1773.

Ithomia Phono, Gey., in Hüb., Zutr. Ex. Schmett., figs. 987, 988, 1837.

Ageronia Feronia, Linn., Mus. Lud. Uhl., 283, 1764.

" *Fornax*, Hüb., Samml. Ex. Schmett., 1, 1816-1824.

Argynnis Astarte, Doubl.-Hew., Gen. Di. Lep., pl. 23, 1848.

" *Nenoquis*, Reak., Pr. Ac. N. Sci. Phil., 1866, 247.

" *Morrisii*, Reak., l. c., 1866, 245.

Collina, Bd., Lep. de la Cala., 54, 1869 (Mexican).

Melitæa Theona, Mén., Cat. Ac. Petr. Lep., 1, 86, pl. 2, 1855.

Phyciodes Ismeria, Bd.-Lec., 168, pl. 46, 1833.

Eresia Hermas, Hew., Ex. But., 3, pl. 5, *Eresia*, 1864.

Grapta C Album, Linn., Syst. Nat., 2, 778, 1867.

" *V Album*, Esp., Eur. Schmett., 2, pl. 52, 1780.

Callicore Clymena, Cram., 1, pl. 24, figs. E, F, 1775.

Smyrna Karwinski, Hüb., Samml. Ex. Schmett., 1, 1816-1824.

Victorina Steneles, Linn., Mus. Lud. Ulr., 218, 1764.

Apatura Idyja, Hüb., Samml. Ex. Schmett., 1, 1816-1824.

Megistanis Acheronta, Fab. Syst. Ent., 501, 1775.

Aganisthos Orion, Fab. Syst. Ent., 485, 1775.

Libythea Motya, Bd.-Lec., pl. 64, 1833.

Eumenia Minijas, Hüb., Samml. Ex. Schmett., 1, 1806-1816.

Thecla Liparops, Bd.-Lec., 99, pl. 64, 1833.

Lycæna Tejua, Reak., Pr. Ac. N. Sci. Phil., 1866, 245.

" *Isola*, Reak., l. c., 1866, 332.

Pamphila Comma, Linn., Syst. Nat., 1, 2, 793, 1767.

" *Sylvanus*, Esp., Eur. Schmett., 1, pl. 36, 1777.

" *Bulenta*, Bd.-Lec., pl. 67, 1883.

Thanaos Tages, Linn., Faun. Suec., 286, 1761.

Described as species by Scudder-Burgess, solely from the genitalia, Pr. Bost. Soc. N. Hist., 13, 296, 1870, and not recognizable.

Nisoniades Ennius.

Nisoniades Tibullus.

" **Horatius.**

" **Propertius.**

" **Virgilius.**

" **Plautus.**

" **Terentius.**

" **Funeralis.**

" **Ovidius.**

ADDENDA.

13. *Troilus*, local. Fort Macleod, N. W. Terr., by Geddes.
15. *Turnus*, form *GLAUCUS*, Fort Macleod, N. W. Terr., by Geddes.
19. *Pilumnus*, desc. l. and chr., Wm. Schaus, Papilio, 4, 100, 1884.
43. *Olympia*, loc. Summit, N. W. Terr., auct. Geddes.
53. *Genutia*, loc. southeast Texas, by S. F. Aaron.
59. *Fantasia*, loc. " " "
57. *Agaritha*, loc. So. Ill., auct. French.
60. *Lanice*, Lintn. desc. Papilio, 4, 138, 1884.
63. *C. Meadii*, loc. N. W. Terr., by Geddes.
105. *Leto*, loc. " " "
127. *A. Nevadensis*, Calgary, N. W. Terr., by Geddes.
134. *Artonis*, loc. Koutainai, " " "
154. *Claudia*, loc. McLean, " " by Bean.
161. *Nubigena*, loc. Crow's Nest, " " by Geddes.
169. *Palla*, loc. Col. by David Bruce.
173. *Harrisii*, loc. Col. by David Bruce.
174. *Ulrica*, loc. southeast Texas, by S. F. Aaron.
181. *Thekla*, loc. " " "
186. *Nycteis*, loc. Edmonton, N. W. Terr. by Geddes.
187. *Carlota*, loc. Brandon, " " "
194. *Camillus*, loc. " " " "
200. *Punctata*, loc. southeast Texas, by S. F. Aaron.
226. *Coenia*, loc. McLean, N. W. Terr., by Bean.
242. *L. Lorquini*, loc. Crow's Nest, N. W. Terr., by Geddes.
250. *Cocles*, Lintn. desc. Papilio, 4, 141, 1884,
255. *N. Gemma*, loc. southeast Texas, by S. F. Aaron.
278. *Magdalena*, loc. Park Co., Col., 10,000 feet elevation, by Bruce.
290. *S. Silvestris*, loc. Garnett Rancho, N. W. Terr., by Geddes,
304. *Taygete*, loc. Park Co., Col., above timber, by Bruce.

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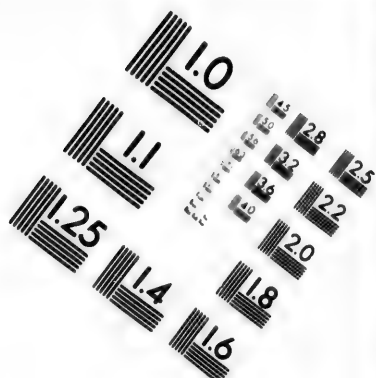
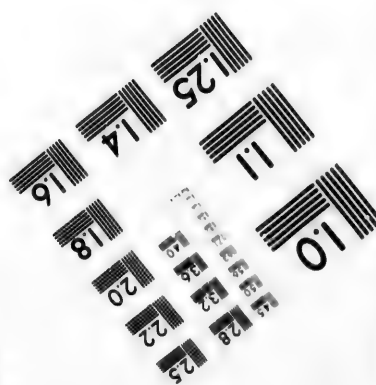
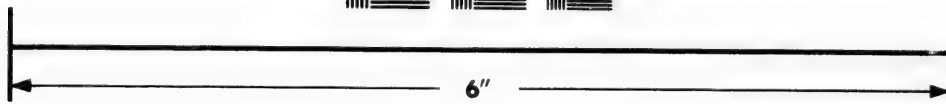
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